

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2014 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

| | Spring (March - May) | Summer ** (June - August) | Fall (September - November) | Winter ** (December - February) |
|----------------------------------|-------------------------|------------------------------|--------------------------------|------------------------------------|
| * Overall LMA Rating (Fall Only) | | | | |

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 0524 Middle Roberts Island

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 01 San Joaquin River | | | Left | 6.26 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | | |
| Date of Inspection | 04/08/2014 - 04/08/2014 | | | |
| DWR Inspector | Richard Willoughby | | | |
| Accompanied By | Mario Jaques RD 524 | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|----------------------------------|--------------|----|------------------------|-----|
| LM Start | 0.00 | Rating ** | M | Issue No. | 121 |
| LM End | 0.00 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Operations & Maintenance Manuals | | | | ° |
| | | | | | ° |
| DWR ID | DWR_RD0524_01_s _ 2012_121 | | | | |
| Action/Comments | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|-------------------------------|--------------|----|------------------------|-----|
| LM Start | 0.00 | Rating ** | M | Issue No. | 123 |
| LM End | 0.00 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Flood Preparedness & Training | | | | ° |
| | | | | | ° |
| DWR ID | DWR_RD0524_01_s _ 2012_123 | | | | |
| Action/Comments | | | | | |
| | | | | | |

No Photos

| | | | | | |
|-----------------|--------------------------------|--------------|----|------------------------|-----|
| LM Start | 0.00 | Rating ** | M | Issue No. | 138 |
| LM End | 0.00 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Emergency Supplies & Equipment | | | | ° |
| | | | | | ° |
| DWR ID | DWR_RD0524_01_s _ 2013_138 | | | | |
| Action/Comments | | | | | |
| | | | | | |

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.01 | Rating ** | M | Issue No. | 177 |
| LM End | 6.26 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.941037 ° | 37.870437 ° |
| | | | | -121.345847 ° | -121.329899 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_177 | | | | |
| Action/Comments | | | | | |
| Control annual grass and weeds on the levee slopes and easements. | | | | | |

No Photos

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.01 | Rating ** | M | Issue No. | 178 |
| LM End | 6.26 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.941037 ° | 37.870437 ° |
| | | | | -121.345847 ° | -121.329896 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_178 | | | | |
| Action/Comments | | | | | |
| Control annual grass and weeds on the levee slopes and easements. | | | | | |

No Photos

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.18 | Rating ** | U | Issue No. | 1 |
| LM End | 0.18 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.939085 ° | 37.939085 ° |
| | | | | -121.343917 ° | -121.343917 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_1 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: Erosion was discovered during 2013 spring levee inspection. Inspector comment: Erosion is located along the lower level of water-ward slope. [2013 Site ID:RD0524U01RM40.85] | | | | | |

Photo 1 of 1 : richard_s_20140320_101.jpg



Front view of erosion.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.22 | Rating ** | M | Issue No. | 3 |
| LM End | 0.22 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.938890 ° | 37.938890 ° |
| | | | | -121.343657 ° | -121.343657 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_3 | | | | |
| Action/Comments | | | | | |
| Repair depressions or ruts in the crown or slope. | | | | | |

Photo 1 of 3 : richard_s_20140320_107.jpg



Looking west at 3" depression on levee crown. (Spring 2012)

Photo 2 of 3 : richard_s_20140320_108.jpg



Looking east at 3" depression on levee crown. (Spring 2012)

Photo 3 of 3 : richard_s_20140320_109.jpg



Looking west at depression on levee crown near waterward shoulder.

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 0.22 | Rating ** | M | Issue No. | 3 (cont) |
| LM End | 0.22 | Issue Type + | Ma | Location * | CR |

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 0.22 | Rating ** | M | Issue No. | 3 (cont) |
| LM End | 0.22 | Issue Type + | Ma | Location * | CR |

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
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A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.27 | Rating ** | M | Issue No. | 179 |
| LM End | 0.27 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.938438 ° | 37.938438 ° |
| | | | | -121.342883 ° | -121.342883 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_179 | | | | |
| Action/Comments | | | | | |
| Thin trees to allow visibility of the ground and room to flood fight. | | | | | |

No Photos

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.34 | Rating ** | M | Issue No. | 180 |
| LM End | 0.34 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.938461 ° | 37.938461 ° |
| | | | | -121.341626 ° | -121.341626 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_180 | | | | |
| Action/Comments | | | | | |
| Schedule repair of erosion site prior to the next inspection. Inspector Comments: Erosion is located along the lower level of waterward slope. | | | | | |

Photo 1 of 2 : richard_s_20140411_518.jpg



Looking northeast at erosion on waterward toe.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 0.34 | Rating ** | M | Issue No. | 180 (cont) |
| LM End | 0.34 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : richard_s_20140411_519.jpg



Looking southeast at erosion on waterward toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.36 | Rating ** | C | Issue No. | 15 |
| LM End | 0.36 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.938338 ° | 37.938338 ° |
| | | | | -121.341290 ° | -121.341290 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_15 | | | | |
| Action/Comments | | | | | |
| Garbage | | | | | |

No Photos

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.40 | Rating ** | U | Issue No. | 5 |
| LM End | 0.40 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.938870 ° | 37.938870 ° |
| | | | | -121.340460 ° | -121.340460 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_5 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change at this site. 8/7/2012: Erosion is at the upper levee slope, and likely caused by slope slip. The lower levee slope is covered with dense vegetation. [2013 Site ID:RD0524U01RM40.99]. Item has been corrected and should be removed from the list. | | | | | |

Photo 1 of 1 : richard_s_20140320_111.jpg



Front view of erosion site. Note the vegetation at the levee toe and lower slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.63 | Rating ** | M | Issue No. | 11 |
| LM End | 0.63 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.938278 ° | 37.938247 ° |
| | | | | -121.336524 ° | -121.336503 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_11 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Bamboo on waterward slope. | | | | | |

Photo 1 of 3 : richard_s_20140320_114.jpg



Looking southeast at bamboo on waterside slope. (Spring 2012)

Photo 2 of 3 : richard_s_20140320_115.jpg



Looking south at bamboo on waterside slope. (Fall Inspection 2012)

Photo 3 of 3 : richard_s_20140320_116.jpg



Looking south at dying bamboo on waterward slope. (Spring 2013)

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.63 | Rating ** | M | Issue No. | 11 (cont) |
| LM End | 0.63 | Issue Type + | Ma | Location * | WS |

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.63 | Rating ** | M | Issue No. | 11 (cont) |
| LM End | 0.63 | Issue Type + | Ma | Location * | WS |

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.63 | Rating ** | M | Issue No. | 10 |
| LM End | 0.63 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.938247 ° | 37.938247 ° |
| | | | | -121.336503 ° | -121.336503 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_10 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by foot traffic and prevent access | | | | | |

Photo 1 of 1 : richard_s_20140320_113.jpg



Looking east at waterside erosion appears to be caused by runoff.

| | | | | | |
|---------------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.65 | Rating ** | M | Issue No. | 13 |
| LM End | 0.66 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.938105 ° | 37.938023 ° |
| | | | | -121.336288 ° | -121.336173 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_13 | | | | |
| Action/Comments | | | | | |
| Repair slope instability. | | | | | |

Photo 1 of 3 : richard_s_20140320_118.jpg



Erosion from LM 0.65 to 0.66

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.65 | Rating ** | M | Issue No. | 13 (cont) |
| LM End | 0.66 | Issue Type + | Ma | Location * | WS |

Photo 2 of 3 : richard_s_20140320_119.jpg



Update of erosion site at LM 0.65 to 0.66

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---------------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.65 | Rating ** | M | Issue No. | 13 (cont) |
| LM End | 0.66 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.938105 ° | 37.938023 ° |
| | | | | -121.336288 ° | -121.336173 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_13 | | | | |
| Action/Comments | | | | | |
| Repair slope instability. | | | | | |

Photo 3 of 3 : richard_s_20140320_120.jpg



Looking south at erosion on waterside shoulder.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.67 | Rating ** | M | Issue No. | 16 |
| LM End | 0.67 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.937890 ° | 37.937890 ° |
| | | | | -121.335939 ° | -121.335939 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_16 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:17563 | | | | | |
| EP_NO: 6035 | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Flows from primer tank causing erosion on LS slope. | | | | | |
| FIELD_STRUCT_DESC: 48-inch pipe through levee 7.3 feet below crown. Siphon pumps and primer tank enclosed by cyclone fence on the landward shoulder. Gate valve at inlet sump 100-feet off LS toe. One concrete cutoff wall. (Permit No. 6035, 1968). | | | | | |
| FS Date: 8/16/2013 | | | | | |

Photo 1 of 1 : UCIP_1614.jpg



Vacuum pumps off LS toe.

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.68 | Rating ** | M | Issue No. | 14 |
| LM End | 0.68 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.937808 ° | 37.937808 ° |
| | | | | -121.335913 ° | -121.335913 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_14 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Bamboo on waterward slope. | | | | | |

Photo 1 of 3 : richard_s_20140320_121.jpg



Looking southeast at bamboo on waterside shoulder as of 4/2010.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.68 | Rating ** | M | Issue No. | 14 (cont) |
| LM End | 0.68 | Issue Type + | Ma | Location * | WS |

Photo 2 of 3 : richard_s_20140320_122.jpg



Looking south at bamboo on waterside slope. (Fall 2012)

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.68 | Rating ** | M | Issue No. | 14 (cont) |
| LM End | 0.68 | Issue Type + | Ma | Location * | WS |

Photo 3 of 3 : richard_s_20140320_123.jpg



Looking south at dying bamboo on waterward slope. (Spring 2013)

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.77 | Rating ** | U | Issue No. | 55 |
| LM End | 0.78 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.936821 ° | 37.936821 ° |
| | | | | -121.334582 ° | -121.334582 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_55 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change at this site. | | | | | |

Photo 1 of 1 : richard_s_20140320_168.jpg



Upstream view of the erosion site.

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.78 | Rating ** | M | Issue No. | 262 |
| LM End | 0.78 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.936555 ° | 37.936555 ° |
| | | | | -121.334847 ° | -121.334847 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_262 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Dense vegetation at landside toe along fence line. | | | | | |

Photo 1 of 2 : richard_s_20140320_237.jpg



Looking west at dense vegetation on landside toe.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 0.78 | Rating ** | M | Issue No. | 262 (cont) |
| LM End | 0.78 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : richard_s_20140320_238.jpg



Looking southwest at vegetation on landward slope and toe. (Spring 2013)

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.79 | Rating ** | M | Issue No. | 22 |
| LM End | 0.79 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.936474 ° | 37.936474 ° |
| | | | | -121.334829 ° | -121.334829 ° |
| DWR ID | DWR_RD0524_01_s_2014_22 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:17571 | | | | | |

Photo 1 of 1 : UCIP_1620.jpg



Siphon breaker in 24-inch cmp riser on WS slope.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.79 | Rating ** | M | Issue No. | 76 |
| LM End | 0.79 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.936444 ° | 37.936444 ° |
| | | | | -121.334797 ° | -121.334797 ° |
| DWR ID | DWR_RD0524_01_s_2012_76 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

Photo 1 of 1 : richard_s_20140320_178.jpg



Looking southwest at low hanging tree branches at landside toe.

| | | | | | |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.82 | Rating ** | U | Issue No. | 2 |
| LM End | 0.82 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.936093 ° | 37.936004 ° |
| | | | | -121.334648 ° | -121.334615 ° |
| DWR ID | DWR_RD0524_01_f_2013_2 | | | | |
| Action/Comments | | | | | |
| Schedule repair of erosion site prior to the next inspection. Inspector Comments: Several holes and finger erosions on landward slope. | | | | | |

Photo 1 of 5 : richard_s_20140320_102.jpg



Looking southwest at hole on landward shoulder.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.82 | Rating ** | U | Issue No. | 2 (cont) |
| LM End | 0.82 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.936093 ° | 37.936004 ° |
| | | | | -121.334648 ° | -121.334615 ° |
| DWR ID | DWR_RD0524_01_f_2013_2 | | | | |
| Action/Comments | | | | | |
| Schedule repair of erosion site prior to the next inspection. Inspector Comments: Several holes and finger erosions on landward slope. | | | | | |

Photo 2 of 5 : richard_s_20140320_103.jpg



Looking west at hole on landward shoulder.

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 0.82 | Rating ** | U | Issue No. | 2 (cont) |
| LM End | 0.82 | Issue Type + | Ma | Location * | LS |

Photo 3 of 5 : richard_s_20140320_104.jpg



Looking northeast at several finger erosion on landward slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 0.82 | Rating ** | U | Issue No. | 2 (cont) |
| LM End | 0.82 | Issue Type + | Ma | Location * | LS |

Photo 4 of 5 : richard_s_20140320_105.jpg



Looking east at erosion on landward slope.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | | |
|---|------------------------|--------------|----|------------------------|---------------|-----|
| LM Start | 0.82 | Rating ** | U | Issue No. | 2 (cont) | |
| LM End | 0.82 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Erosion / Bank Caving | | | 37.936093 ° | 37.936004 ° | |
| | | | | -121.334648 ° | -121.334615 ° | |
| DWR ID | DWR_RD0524_01_f_2013_2 | | | | | |
| Action/Comments | | | | | | |
| Schedule repair of erosion site prior to the next inspection. | | | | | | |

Photo 5 of 5 : richard_s_20140320_106.jpg



Looking southeast at finger erosion on landward slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.83 | Rating ** | U | Issue No. | 79 |
| LM End | 0.84 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.935930 ° | 37.935930 ° |
| | | | | -121.334133 ° | -121.334133 ° |
| DWR ID | DWR_RD0524_01_s_2014_79 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: Site was discovered during boat survey. The dense vegetation blocks a clear view of the erosion. Size of erosion site was very roughly estimated. [2013 Site ID:RD0524U01RM41.44] | | | | | |

Photo 1 of 1 : richard_s_20140320_181.jpg



Front view of the erosion. The tree and vegetation blocks the view of the site.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.91 | Rating ** | U | Issue No. | 90 |
| LM End | 0.91 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.935576 ° | 37.935576 ° |
| | | | | -121.333202 ° | -121.333202 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_90 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: The erosion site is immediately downstream of the riprap protection. [2013 Site ID:RD0524U01RM41.5] | | | | | |

Photo 1 of 1 : richard_s_20140320_187.jpg



Front view of the erosion. Note the riprap protection near the site.

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.92 | Rating ** | M | Issue No. | 122 |
| LM End | 0.92 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.935267 ° | 37.935267 ° |
| | | | | -121.332985 ° | -121.332985 ° |
| DWR ID | DWR_RD0524_01_s _ 2013_122 | | | | |
| Action/Comments | | | | | |
| Pipe | | | | | |
| Inspector Comments: Inch and half metal pipe should be removed. | | | | | |

Photo 1 of 1 : richard_s_20140320_215.jpg



Looking northwest at inch and half metal pipe on waterward slope.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.94 | Rating ** | M | Issue No. | 77 |
| LM End | 1.02 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.935259 ° | 37.935049 ° |
| | | | | -121.332864 ° | -121.331334 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_77 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

Photo 1 of 1 : richard_s_20140320_179.jpg



Looking south at low hanging tree branches at landside toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.97 | Rating ** | M | Issue No. | 20 |
| LM End | 0.97 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.935181 ° | 37.935181 ° |
| | | | | -121.332297 ° | -121.332297 ° |
| DWR ID | DWR_RD0524_01_f_2013_20 | | | | |
| Action/Comments | | | | | |
| Trim trees over roadway to at least 12 feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.98 | Rating ** | M | Issue No. | 29 |
| LM End | 0.98 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.935178 ° | 37.935178 ° |
| | | | | -121.332029 ° | -121.332029 ° |
| DWR ID | DWR_RD0524_01_s_2014_29 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:22724 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Pipe abandoned and should be done so properly. | | | | | |
| FIELD_STRUCT_DESC: *Abandoned* 14-inch pipe through the levee | | | | | |
| 6.0 feet below the crown. Concrete pad for pump on WS shoulder. No | | | | | |
| pump or other appurtances remain. Originally included in the 1964 | | | | | |
| O&M manual. | | | | | |
| FS Date: 8/16/2013 | | | | | |

Photo 1 of 1 : UCIP_3045.jpg



Pipe visible on WS slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.00 | Rating ** | U | Issue No. | 125 |
| LM End | 1.00 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.935410 ° | 37.935410 ° |
| | | | | -121.331560 ° | -121.331560 ° |
| DWR ID | DWR_RD0524_01_s_2014_125 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change at this site. 08/07/2012: The erosion was discovered during the boat survey. [2013 Site ID:RD0524U01RM41.58] | | | | | |

Photo 1 of 1 : richard_s_20140320_217.jpg



Front view of erosion.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.03 | Rating ** | M | Issue No. | 17 |
| LM End | 1.03 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.935018 ° | 37.935098 ° |
| | | | | -121.331248 ° | -121.331645 ° |
| DWR ID | DWR_RD0524_01_s_2012_17 | | | | |
| Action/Comments | | | | | |
| Schedule repair of erosion site prior to the next inspection. Inspector Comments: Minor erosion was noted next to repaired site. | | | | | |

Photo 1 of 3 : richard_s_20140320_125.jpg



Looking upstream (south) at erosion site.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.03 | Rating ** | M | Issue No. | 17 (cont) |
| LM End | 1.03 | Issue Type + | Ma | Location * | WS |

Photo 2 of 3 : richard_s_20140320_126.jpg



Looking north at erosion site next to repaired site. (Spring 2012)

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | | | |
|---|-------------------------|--------------|----|------------------------|-----------|-------------|---|
| LM Start | 1.03 | Rating ** | M | Issue No. | 17 (cont) | | |
| LM End | 1.03 | Issue Type + | Ma | Location * | WS | | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | | |
| | | | | Start | | End | |
| Item | Erosion / Bank Caving | | | 37.935018 | ° | 37.935098 | ° |
| | | | | -121.331248 | ° | -121.331645 | ° |
| DWR ID | DWR_RD0524_01_s_2012_17 | | | | | | |
| Action/Comments | | | | | | | |
| Schedule repair of erosion site prior to the next inspection. | | | | | | | |

Photo 3 of 3 : richard_s_20140320_127.jpg



Looking southeast at erosion next to repaired site on waterward slope
(Spring 2013)

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.08 | Rating ** | M | Issue No. | 47 |
| LM End | 1.08 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.934778 ° | 37.934778 ° |
| | | | | -121.330460 ° | -121.330460 ° |
| DWR ID | DWR_RD0524_01_s_2014_47 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18703 | | | | | |
| EP_NO: 2725B | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Given amount of rust on adjacent CMP riser, it may be appropriate to do a video inspection of this pipe. | | | | | |
| FIELD_STRUCT_DESC: 36-inch concrete encased pipe through levee 11.5 feet below crown. Pump in pump house on the landward side. | | | | | |
| Flap gate on the waterward end. Two concrete cutoff walls. Siphon breaker in 8-inch CMP riser unit on the landward slope (Permit No. 2725B, 1959). Included in the 1964 O&M manual. | | | | | |
| FS Date: 8/16/2013 | | | | | |

Photo 1 of 1 : UCIP_1710.jpg



8-inch CMP standpipe on LS slope with pumphouse in background.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
| | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.08 | Rating ** | M | Issue No. | 99 |
| LM End | 1.08 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.934750 ° | 37.934750 ° |
| | | | | -121.330405 ° | -121.330405 ° |
| DWR ID | DWR_RD0524_01_s_2014_99 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:17589 | | | | | |
| EP_NO: 2725B | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: CMP riser severely corroded. Good indicator of potential condition of 48-inch pipe. Recommend Video Inspection. | | | | | |
| FIELD_STRUCT_DESC: 48-inch CMP sewer line through the levee 16.0 feet below crown. Runs underneath the river and through levee with 36-inch CMP riser/inspection chamber on landward shoulder. | | | | | |
| Distribution/pumphouse on LS toe (Permit No. 2725B, 1959). Included in the 1964 O&M manual. | | | | | |
| FS Date: 8/16/2013 | | | | | |

No Photos

| | | | | | |
|---------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.09 | Rating ** | M | Issue No. | 18 |
| LM End | 1.09 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.934645 ° | 37.934645 ° |
| | | | | -121.330310 ° | -121.330310 ° |
| DWR ID | DWR_RD0524_01_s_2012_18 | | | | |
| Action/Comments | | | | | |
| Repair slope instability. | | | | | |

Photo 1 of 5 : richard_s_20140320_128.jpg



Landward slope damage at LM 1.09.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---------------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.09 | Rating ** | M | Issue No. | 18 (cont) |
| LM End | 1.09 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.934645 ° | 37.934645 ° |
| | | | | -121.330310 ° | -121.330310 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_18 | | | | |
| Action/Comments | | | | | |
| Repair slope instability. | | | | | |

Photo 2 of 5 : richard_s_20140320_129.jpg



Updated picture of the erosion site on the landside shoulder.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.09 | Rating ** | M | Issue No. | 18 (cont) |
| LM End | 1.09 | Issue Type + | Ma | Location * | LS |

Photo 3 of 5 : richard_s_20140320_130.jpg



Updated view from above the slope stability.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.09 | Rating ** | M | Issue No. | 18 (cont) |
| LM End | 1.09 | Issue Type + | Ma | Location * | LS |

Photo 4 of 5 : richard_s_20140320_131.jpg



Looking at updated slope stability as of 4/2010.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | | |
|---------------------------|---------------------------|--------------|----|------------------------|---------------|-----|
| LM Start | 1.09 | Rating ** | M | Issue No. | 18 (cont) | |
| LM End | 1.09 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Slope Stability | | | 37.934645 ° | 37.934645 ° | |
| | | | | -121.330310 ° | -121.330310 ° | |
| DWR ID | DWR_RD0524_01_s _ 2012_18 | | | | | |
| Action/Comments | | | | | | |
| Repair slope instability. | | | | | | |

Photo 5 of 5 : richard_s_20140320_132.jpg



Looking south at caving on landside shoulder. (Spring 2012)

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.14 | Rating ** | M | Issue No. | 19 |
| LM End | 1.17 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.934118 ° | 37.933775 ° |
| | | | | -121.329657 ° | -121.329305 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_19 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

Photo 1 of 1 : richard_s_20140320_133.jpg



Looking northwest at low hanging tree branches at waterside toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.16 | Rating ** | U | Issue No. | 126 |
| LM End | 1.24 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.933347 ° | 37.933347 ° |
| | | | | -121.329110 ° | -121.329110 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_126 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. No significant changes observed 08/23/2011: No significant changes observed on site. 9/07/2010: No significant changes observed on site. Vegetation is visible at the water line. There is an exposed pipe discharge partially hanging at the mid-slope, possibly still used for discharging irrigation/runoff water. There is minimal rip rap protection along the bank, and what's left of it is no longer adequately protecting the bank. 9/29/2009: Site consists of a 400-foot long eroding bank with minimal vegetation and protection; the existing rip rap has sloughed, rendering it useless; note that there is an exposed section of a pipe. 10/18/2006: There is extensive loss of rip rap on some sections; sewage disposal pond is on the landside of the levee; there is an exposed pipe outlet "hanging" from the upper slope. [2013 Site ID:RD0524U01RM41.79] | | | | | |

Photo 1 of 1 : richard_s_20140320_218.jpg



Direct view of the site.

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.17 | Rating ** | M | Issue No. | 915 |
| LM End | 1.25 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.933775 ° | 37.932784 ° |
| | | | | -121.329250 ° | -121.328765 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_915 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |

Photo 1 of 1 : richard_s_20140320_246.jpg



Looking southwest at dense veg. on landside toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.26 | Rating ** | U | Issue No. | 263 |
| LM End | 1.26 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.932533 ° | 37.932533 ° |
| | | | | -121.328650 ° | -121.328650 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_263 | | | | |
| Action/Comments | | | | | |
| Ramp | | | | | |
| Inspector Comments: Unauthorized ramps on landside slope. Ramps were caused by vehicle traffic. | | | | | |

Photo 1 of 2 : richard_s_20140320_239.jpg



Looking south at unauthorized ramp on landside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 1.26 | Rating ** | U | Issue No. | 263 (cont) |
| LM End | 1.26 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : richard_s_20140320_240.jpg



Looking northwest at unauthorized ramp on landside slope.

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.29 | Rating ** | U | Issue No. | 127 |
| LM End | 1.32 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.931858 ° | 37.931858 ° |
| | | | | -121.328300 ° | -121.328300 ° |
| DWR ID | DWR_RD0524_01_s_2014_127 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: New signs of animal activity were | | | | | |

Photo 1 of 1 : richard_s_20140320_219.jpg



Front view of the erosion.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.31 | Rating ** | M | Issue No. | 137 |
| LM End | 1.31 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.931976 ° | 37.931976 ° |
| | | | | -121.328401 ° | -121.328401 ° |
| DWR ID | DWR_RD0524_01_s_2014_137 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:17703 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Pipe appears to be open on both ends. Abandoned and should be done so properly. | | | | | |
| FIELD_STRUCT_DESC: *Abandoned* 12-inch pipe through levee 3.5 feet below crown. Open on both ends. Originally included in the 1964 O&M manual. | | | | | |
| FS Date: 8/16/2013 9:57:05 AM | | | | | |

Photo 1 of 1 : UCIP_1626.jpg



Pipe visible and open on WS slope.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.31 | Rating ** | M | Issue No. | 33 |
| LM End | 1.31 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.931948 ° | 37.931948 ° |
| | | | | -121.328387 ° | -121.328387 ° |
| DWR ID | DWR_RD0524_01_s_2012_33 | | | | |
| Action/Comments | | | | | |
| Pipe Inspector Comments: Pipe is not in use and needs to be properly abandoned. | | | | | |

Photo 1 of 2 : richard_s_20140320_143.jpg



Looking north at broken pipe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.31 | Rating ** | M | Issue No. | 33 (cont) |
| LM End | 1.31 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.931948 ° | 37.931948 ° |
| | | | | -121.328387 ° | -121.328387 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_33 | | | | |
| Action/Comments | | | | | |
| Pipe Inspector Comments: Pipe is not in use and needs to be properly abandoned. | | | | | |

Photo 2 of 2 : richard_s_20140320_144.jpg



Looking west at pipe on landside slope.

| | | | | | |
|---|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.33 | Rating ** | M | Issue No. | 130 |
| LM End | 1.37 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 37.931658 ° | 37.931085 ° |
| | | | | -121.328255 ° | -121.328112 ° |
| DWR ID | DWR_RD0524_01_s _ 2013_130 | | | | |
| Action/Comments | | | | | |
| Add appropriate gravel or road base. Grade and compact. | | | | | |

No Photos

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.39 | Rating ** | U | Issue No. | 128 |
| LM End | 1.39 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.930575 ° | 37.930575 ° |
| | | | | -121.328090 ° | -121.328090 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_128 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. The site is located about 750 ft downstream of SR 4 Bridge. [2013 Site ID:RD0524U01RM42.03] | | | | | |

Photo 1 of 1 : richard_s_20140320_220.jpg



Front view of the erosion.

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.45 | Rating ** | U | Issue No. | 129 |
| LM End | 1.47 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.929650 ° | 37.929650 ° |
| | | | | -121.328110 ° | -121.328110 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_129 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: The site is located approximately 400 ft downstream SR 4 Bridge. Dense vegetation is visible at the toe. [2013 Site ID:RD0524U01RM42.09] | | | | | |

Photo 1 of 1 : richard_s_20140320_221.jpg



Front view of erosion site.

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.51 | Rating ** | M | Issue No. | 916 |
| LM End | 1.51 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.929118 ° | 37.929118 ° |
| | | | | -121.328368 ° | -121.328368 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_916 | | | | |
| Action/Comments | | | | | |
| Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |

Photo 1 of 3 : richard_s_20140320_247.jpg



Dense vegetation on landside toe.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 1.51 | Rating ** | M | Issue No. | 916 (cont) |
| LM End | 1.51 | Issue Type + | Ma | Location * | LS |

Photo 2 of 3 : richard_s_20140320_248.jpg



Looking south at dense veg. on landside slope and toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

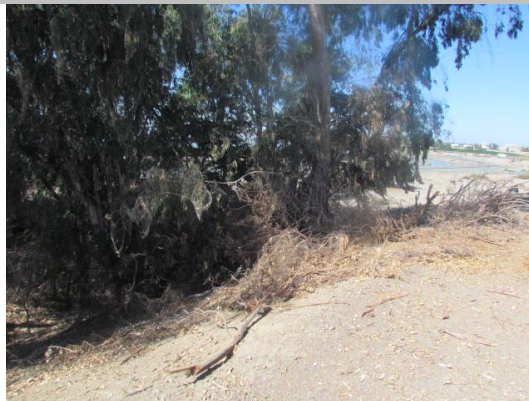
Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|-----|
| LM Start | 1.51 | Rating ** | M | Issue No. | 916 (cont) | |
| LM End | 1.51 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Trim / Thin Trees | | | 37.929118 ° | 37.929118 ° | |
| | | | | -121.328368 ° | -121.328368 ° | |
| DWR ID | DWR_RD0524_01_s _ 2012_916 | | | | | |
| Action/Comments | | | | | | |
| Trim and thin trees to allow visibility of the ground and room to flood | | | | | | |

Photo 3 of 3 : richard_s_20140320_249.jpg



Looking south at trees on landside slope. (Fall 2012)

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.56 | Rating ** | M | Issue No. | 140 |
| LM End | 1.56 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.928428 ° | 37.928428 ° |
| | | | | -121.328296 ° | -121.328296 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_140 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:17798 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: No permit identified for this crossing. | | | | | |
| FIELD_STRUCT_DESC: Fiber optics cable crossing. USAA marker flags over crown along alignment of gate. | | | | | |
| FS Date: 8/20/2013 | | | | | |

Photo 1 of 1 : UCIP_1628.jpg



USAA markers along alignment at gate.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.56 | Rating ** | U | Issue No. | 23 |
| LM End | 1.74 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.928388 ° | 37.926497 ° |
| | | | | -121.328280 ° | -121.326248 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_23 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |

Photo 1 of 1 : richard_s_20140320_136.jpg



Overgrown landscaping on landward slope from LM 1.56 to 1.74

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.58 | Rating ** | U | Issue No. | 131 |
| LM End | 1.64 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.927770 ° | 37.927770 ° |
| | | | | -121.327870 ° | -121.327870 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_131 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: : The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. Trees concerned still in place. 09/07/2010: No significant changes observed on site. The concern here is the undermining of the levee toe where most of trees are. There are erosion pockets lined along the lower slope and at the base of the trees, exposing tree roots. There is minimal slope protection. 09/29/2009: The lower slope is lined with minor erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank. [2013 Site ID:RD0524U01RM42.2] | | | | | |

Photo 1 of 1 : richard_s_20140320_222.jpg



Front view of erosion. Dense vegetation is visible.

| | | | |
|--|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.60 | Rating ** | M | Issue No. | 136 |
| LM End | 1.60 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.927775 ° | 37.927775 ° |
| | | | | -121.327860 ° | -121.327860 ° |
| DWR ID | DWR_RD0524_01_s _ 2013_136 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |

Photo 1 of 1 : richard_s_20140320_227.jpg



Looking south at depression on levee crown near waterward shoulder.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.62 | Rating ** | U | Issue No. | 24 |
| LM End | 1.63 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.927635 ° | 37.927540 ° |
| | | | | -121.327812 ° | -121.327648 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_24 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |

Photo 1 of 1 : richard_s_20140320_137.jpg



Looking north at dense vegetation on the landside and waterside slopes.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.62 | Rating ** | U | Issue No. | 25 |
| LM End | 1.63 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.927635 ° | 37.927540 ° |
| | | | | -121.327812 ° | -121.327648 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_25 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |

Photo 1 of 1 : richard_s_20140320_138.jpg



Looking southeast at dense vegetation on the waterside slope.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--------------------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.63 | Rating ** | M | Issue No. | 26 |
| LM End | 1.66 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.927507 ° | 37.927295 ° |
| | | | | -121.327593 ° | -121.327298 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_26 | | | | |
| Action/Comments | | | | | |
| Note and monitor erosion site. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.64 | Rating ** | U | Issue No. | 39 |
| LM End | 1.64 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.927372 ° | 37.927372 ° |
| | | | | -121.327278 ° | -121.327278 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_39 | | | | |
| Action/Comments | | | | | |
| Pole | | | | | |
| Inspector Comments: Landowner constructed boat dock without permission from the CVFPB. | | | | | |

Photo 1 of 2 : richard_s_20140320_154.jpg



Looking east at non-permitted boat dock.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.64 | Rating ** | U | Issue No. | 39 (cont) |
| LM End | 1.64 | Issue Type + | En | Location * | WS |

Photo 2 of 2 : richard_s_20140320_155.jpg



Looking at garbage on waterside slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.66 | Rating ** | N | Issue No. | 8 |
| LM End | 1.70 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.927255 ° | 37.926855 ° |
| | | | | -121.327137 ° | -121.326672 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_8 | | | | |
| Action/Comments | | | | | |
| Tree stumps. | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.69 | Rating ** | M | Issue No. | 45 |
| LM End | 1.69 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.927018 ° | 37.927018 ° |
| | | | | -121.326872 ° | -121.326872 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_45 | | | | |
| Action/Comments | | | | | |
| Stairway Inspector Comments: Stairs and retaining wall | | | | | |

Photo 1 of 3 : richard_s_20140320_159.jpg



Looking northeast on non-permitted concrete stairs on waterside slope.

Photo 2 of 3 : richard_s_20140320_160.jpg



Looking west at concrete stairs on waterside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.69 | Rating ** | M | Issue No. | 45 (cont) |
| LM End | 1.69 | Issue Type + | Ma | Location * | WS |

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | | |
|-----------------|---------------------------|--------------|----|------------------------|---------------|-----|
| LM Start | 1.69 | Rating ** | M | Issue No. | 45 (cont) | |
| LM End | 1.69 | Issue Type + | Ma | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Encroachments | | | 37.927018 ° | 37.927018 ° | |
| | | | | -121.326872 ° | -121.326872 ° | |
| DWR ID | DWR_RD0524_01_s _ 2012_45 | | | | | |
| Action/Comments | | | | | | |
| Stairway | | | | | | |

Photo 3 of 3 : richard_s_20140320_161.jpg



Looking southwest at retaining wall connected to concrete stairs.

| | | | | | |
|---------------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.71 | Rating ** | M | Issue No. | 27 |
| LM End | 1.73 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.926728 ° | 37.926730 ° |
| | | | | -121.326597 ° | -121.326508 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_27 | | | | |
| Action/Comments | | | | | |
| Repair slope instability. | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.75 | Rating ** | M | Issue No. | 28 |
| LM End | 1.75 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.926322 ° | 37.926322 ° |
| | | | | -121.326115 ° | -121.326115 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_28 | | | | |
| Action/Comments | | | | | |
| Garbage Inspector Comments: Large pruning piles on landside slope. | | | | | |

Photo 1 of 1 : richard_s_20140411_520.jpg



Looking at southwest at pruning pile at landward berm.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.76 | Rating ** | M | Issue No. | 181 |
| LM End | 1.76 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.925972 ° | 37.925972 ° |
| | | | | -121.325769 ° | -121.325769 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_181 | | | | |
| Action/Comments | | | | | |
| Material | | | | | |
| Inspector Comments: Landowner stock piling pallets at landward toe. | | | | | |

Photo 1 of 1 : richard_s_20140411_521.jpg



Looking west at wooden pallets at landward toe.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.77 | Rating ** | M | Issue No. | 46 |
| LM End | 1.77 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.925993 ° | 37.926152 ° |
| | | | | -121.325777 ° | -121.325927 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_46 | | | | |
| Action/Comments | | | | | |
| Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |

Photo 1 of 1 : richard_s_20140320_162.jpg



Looking southwest at dense vegetation and low hanging tree branches on landside slope and toe.

| | | | | | |
|-----------------|----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.80 | Rating ** | A/W | Issue No. | 100 |
| LM End | 1.80 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.925752 ° | 37.925752 ° |
| | | | | -121.325592 ° | -121.325592 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_100 | | | | |
| Action/Comments | | | | | |
| Prunings | | | | | |

Photo 1 of 1 : richard_s_20140320_195.jpg



Looking southwest at prunings on landside toe.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.82 | Rating ** | C | Issue No. | 103 |
| LM End | 1.82 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.925365 ° | 37.925365 ° |
| | | | | -121.325223 ° | -121.325223 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_103 | | | | |
| Action/Comments | | | | | |
| Garbage | | | | | |
| Inspector Comments: Landowner storing appliances and equipment at landside toe. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.82 | Rating ** | M | Issue No. | 149 |
| LM End | 1.82 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.925480 ° | 37.925480 ° |
| | | | | -121.325358 ° | -121.325358 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_149 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21866 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: No permit identified for crossing. | | | | | |
| FIELD_STRUCT_DESC: 12-inch wrapped steel irrigation pipe through the levee at an unknown depth below the crown. Pump, butterfly valves, vent, and siphon breaker at concrete pad 50-feet off LS toe. | | | | | |
| Siphon breaker in 14-inch concrete standpipe on LS shoulder. | | | | | |
| FS Date: 8/20/2013 | | | | | |

Photo 1 of 1 : UCIP_2774.jpg



Pumping plant with siphon breaker, vents, and butterfly valves.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
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N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|----------|----------------------|--------------|------------------------|---------------|------------|
| LM Start | 1.83 | Rating ** | M | Issue No. | 150 |
| LM End | 1.83 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP Field Study | | 37.925429 ° | 37.925429 ° | |
| | | | -121.325322 ° | -121.325322 ° | |

Photo 1 of 1 : UCIP_1631.jpg



| | |
|-----------------|--------------------------|
| DWR ID | DWR_RD0524_01_s_2014_150 |
| Action/Comments | |

Inspector Comments: FS_ID:17847
 EP_NO: N/A
 Repair Type:
 Crossing Status:
 UCIP Comments: Pipe appears abandoned and if so should be done so properly.
 FIELD_STRUCT_DESC: 14-inch pipe through levee 20.0 feet below crown, 2 pumps and gate valves discharge into surge tank in pump house on the waterward slope. Concrete distribution box removed from the waterward slope. Abandoned 36-inch diameter concrete standpipe on LS toe next to service pole. Originally included in the 1964 O&M manual.
 FS Date: 8/20/2013

Pipes and pumphouse on WS slope.

| | | | | | |
|----------|----------------------|--------------|------------------------|---------------|------------|
| LM Start | 1.83 | Rating ** | M | Issue No. | 151 |
| LM End | 1.83 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | GPS Latitude/Longitude | | |
| | | | Start | End | |
| Item | DWR UCIP Field Study | | 37.925431 ° | 37.925431 ° | |
| | | | -121.325310 ° | -121.325310 ° | |

Photo 1 of 1 : UCIP_2773.jpg



| | |
|-----------------|--------------------------|
| DWR ID | DWR_RD0524_01_s_2014_151 |
| Action/Comments | |

Inspector Comments: FS_ID:21865
 EP_NO: N/A
 Repair Type:
 Crossing Status:
 UCIP Comments: Pipes appear abandoned and should be removed from levee.
 FIELD_STRUCT_DESC: One 1-inch and two 3/4-inch PVC conduits through the levee 6-inches below the crown.
 FS Date: 8/20/2013

Pipes visible on WS shoulder directly in front of pumphouse.

| | | | |
|--|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.90 | Rating ** | M | Issue No. | 78 |
| LM End | 1.95 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.924364 ° | 37.923805 ° |
| | | | | -121.324473 ° | -121.324238 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_78 | | | | |
| Action/Comments | | | | | |
| Landscaping | | | | | |

Photo 1 of 1 : richard_s_20140320_180.jpg



Looking southwest at landscaping on landside slope. (Spring 2012)

| | | | | | |
|---|----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 1.95 | Rating ** | A/W | Issue No. | 104 |
| LM End | 1.95 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.923808 ° | 37.923808 ° |
| | | | | -121.324260 ° | -121.324260 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_104 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo outside of the twenty foot vegetation zone. | | | | | |

Photo 1 of 2 : richard_s_20140320_199.jpg



Looking southeast at bamboo on waterside slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | | |
|---|----------------------------|--------------|-----|------------------------|---------------|--|
| LM Start | 1.95 | Rating ** | A/W | Issue No. | 104 (cont) | |
| LM End | 1.95 | Issue Type + | En | Location * | WS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | Vegetation | | | 37.923808 ° | 37.923808 ° | |
| | | | | -121.324260 ° | -121.324260 ° | |
| DWR ID | DWR_RD0524_01_s _ 2012_104 | | | | | |
| Action/Comments | | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Bamboo outside of the twenty foot vegetation zone. | | | | | | |

Photo 2 of 2 : richard_s_20140320_200.jpg



Looking northeast at sprayed bamboo on waterside slope. (Fall 2012)

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.01 | Rating ** | M | Issue No. | 105 |
| LM End | 2.01 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.923032 ° | 37.923032 ° |
| | | | | -121.323933 ° | -121.323933 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_105 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.01 | Rating ** | M | Issue No. | 4 |
| LM End | 2.01 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.923068 ° | 37.923068 ° |
| | | | | -121.323990 ° | -121.323990 ° |
| DWR ID | DWR_RD0524_01_f _ 2012_4 | | | | |
| Action/Comments | | | | | |
| Stairway Inspector Comments: Landowner installed rubber tires for a stairway on landside slope. | | | | | |

Photo 1 of 1 : richard_s_20140320_110.jpg



Looking west at rubber tires being used as stairs on landside slope.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.01 | Rating ** | M | Issue No. | 152 |
| LM End | 2.01 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.923022 ° | 37.923022 ° |
| | | | | -121.323953 ° | -121.323953 ° |
| DWR ID | DWR_RD0524_01_s_2014_152 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21872 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: No permit identified for this crossing. | | | | | |
| FIELD_STRUCT_DESC: 3-inch PVC domestic non-potable water line through the levee at unknowd depth below the crown. Pump on concrete pad at WS toe. | | | | | |
| FS Date: 8/20/2013 | | | | | |

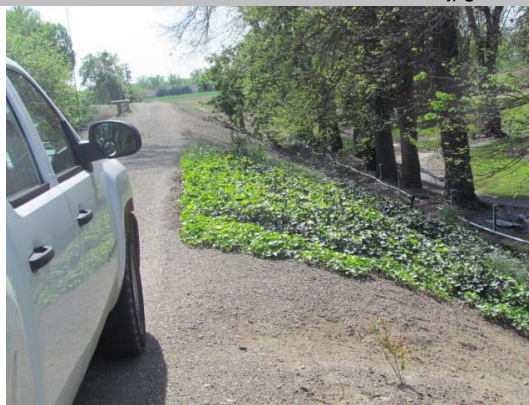
Photo 1 of 1 : UCIP_2778.jpg



Pump and pipe visible on WS slope.

| | | | | | |
|-----------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.02 | Rating ** | M | Issue No. | 106 |
| LM End | 2.02 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.922923 ° | 37.922923 ° |
| | | | | -121.323837 ° | -121.323837 ° |
| DWR ID | DWR_RD0524_01_s_2012_106 | | | | |
| Action/Comments | | | | | |
| Landscaping | | | | | |

Photo 1 of 1 : richard_s_20140411_522.jpg



Looking southwest at ground cover on landward slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.03 | Rating ** | M | Issue No. | 182 |
| LM End | 2.06 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.922837 ° | 37.922514 ° |
| | | | | -121.323785 ° | -121.323504 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_182 | | | | |
| Action/Comments | | | | | |
| Ditch Inspector Comments: Old irrigation ditch at landward toe should be removed. | | | | | |

Photo 1 of 2 : richard_s_20140411_523.jpg



Looking southwest at old irrigation ditch at landward toe.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 2.03 | Rating ** | M | Issue No. | 182 (cont) |
| LM End | 2.06 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : richard_s_20140411_524.jpg



Looking northwest at old irrigation ditch at landward toe.

| | | | | | |
|---------------------------------|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.05 | Rating ** | M | Issue No. | 153 |
| LM End | 2.05 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.922535 ° | 37.922535 ° |
| | | | | -121.323568 ° | -121.323568 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_153 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21883 | | | | | |

Photo 1 of 1 : UCIP_2783.jpg



Pipe visible on WS slope.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

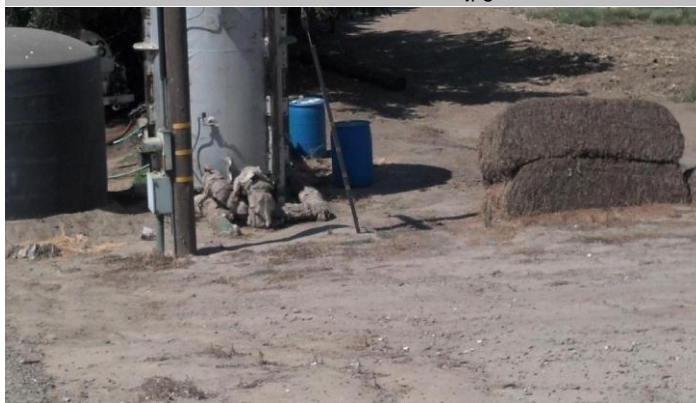
Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.09 | Rating ** | M | Issue No. | 154 |
| LM End | 2.09 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.922080 ° | 37.922080 ° |
| | | | | -121.323118 ° | -121.323118 ° |
| DWR ID | DWR_RD0524_01_s_2014_154 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21895 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: No permit identified for this crossing. | | | | | |
| FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee at an unknown depth. Vent, meter, butterfly valve, and pump at pumphouse on WS slope. | | | | | |
| FS Date: 8/20/2013 | | | | | |

Photo 1 of 1 : UCIP_2786.jpg



Steel irrigation line visible in front of tank to right of powerpole off LS toe.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.10 | Rating ** | M | Issue No. | 155 |
| LM End | 2.10 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.922064 ° | 37.922064 ° |
| | | | | -121.323084 ° | -121.323084 ° |
| DWR ID | DWR_RD0524_01_s_2014_155 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:17944 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Soil excavated from cover over pipe on WS next to concrete riser. May indicate a leak or other problem. | | | | | |
| FIELD_STRUCT_DESC: 20-inch steel pipe through the levee 15.0 feet below the crown. Pump in pump house on the waterward slope. Slide gate in 4-foot diameter concrete standpipe on WS slope with secondary concrete standpipe. PVC standpipe visible 350-feet off LS toe. | | | | | |
| Originally included in the 1964 O&M manual. | | | | | |
| FS Date: 8/20/2013 | | | | | |

Photo 1 of 1 : UCIP_1635.jpg



Slide gate in concrete riser with secondary concrete riser in foreground. Pumphouse in background.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.10 | Rating ** | M | Issue No. | 183 |
| LM End | 2.10 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.922009 ° | 37.922009 ° |
| | | | | -121.323015 ° | -121.323015 ° |
| DWR ID | DWR_RD0524_01_s_2014_183 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Cactus on waterward slope. | | | | | |

No Photos

| | | | | | |
|---|------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.15 | Rating ** | A/W | Issue No. | 6 |
| LM End | 2.22 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.921540 ° | 37.920959 ° |
| | | | | -121.322293 ° | -121.321365 ° |
| DWR ID | DWR_RD0524_01_f_2012_6 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |

No Photos

| | | | | | |
|--------------------------------|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.17 | Rating ** | A/W | Issue No. | 30 |
| LM End | 2.18 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.921383 ° | 37.921300 ° |
| | | | | -121.322043 ° | -121.321902 ° |
| DWR ID | DWR_RD0524_01_s_2012_30 | | | | |
| Action/Comments | | | | | |
| Note and monitor erosion site. | | | | | |

No Photos

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.19 | Rating ** | U | Issue No. | 132 |
| LM End | 2.19 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.920992 ° | 37.920992 ° |
| | | | | -121.321370 ° | -121.321370 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_132 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. Slightly more vegetation was visible. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2013 Site ID:RD0524U01RM42.79] | | | | | |

Photo 1 of 1 : richard_s_20140320_223.jpg



Looking from downstream.

| | | | | | |
|---------------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.22 | Rating ** | M | Issue No. | 31 |
| LM End | 2.28 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.920992 ° | 37.920505 ° |
| | | | | -121.321373 ° | -121.320485 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_31 | | | | |
| Action/Comments | | | | | |
| Repair slope instability. | | | | | |

Photo 1 of 1 : richard_s_20140320_141.jpg



Looking south slope damage on waterward shoulder and slope.

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.25 | Rating ** | U | Issue No. | 133 |
| LM End | 2.28 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.920650 ° | 37.920650 ° |
| | | | | -121.320370 ° | -121.320370 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_133 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: An irrigation pipe is on site. [2013 Site ID:RD0524U01RM42.84] | | | | | |

Photo 1 of 1 : richard_s_20140320_224.jpg



Looking from upstream.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.29 | Rating ** | U | Issue No. | 32 |
| LM End | 2.31 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.920372 ° | 37.920273 ° |
| | | | | -121.320230 ° | -121.320022 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_32 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

Photo 1 of 1 : richard_s_20140320_142.jpg



Looking south at dense veg on landside slope and toe.

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.31 | Rating ** | U | Issue No. | 134 |
| LM End | 2.33 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.919885 ° | 37.919885 ° |
| | | | | -121.319710 ° | -121.319710 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_134 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: The length of erosion has progressed downstream, and the site length has increased from 12 ft in length last year to 100 feet in length this year. 08/07/2012: The site was first reported in the 2012 spring levee inspection report. The site is located at the inside corner of a river bend. [2013 Site ID:RD0524U01RM42.93] | | | | | |

Photo 1 of 1 : richard_s_20140320_225.jpg



Looking from upstream.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.34 | Rating ** | M | Issue No. | 34 |
| LM End | 2.35 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.919885 ° | 37.919703 ° |
| | | | | -121.319713 ° | -121.319702 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_34 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by foot traffic and prevent access where possible. Inspector Comments: Slope damage caused by walking traffic and using bank as a fishing platform. | | | | | |

Photo 1 of 1 : richard_s_20140320_145.jpg



Looking northeast at damage to the slope possibly caused by human activity.

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.35 | Rating ** | M | Issue No. | 107 |
| LM End | 2.35 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.919742 ° | 37.919742 ° |
| | | | | -121.319623 ° | -121.319623 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_107 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.40 | Rating ** | M | Issue No. | 184 |
| LM End | 2.40 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.919036 ° | 37.919036 ° |
| | | | | -121.319969 ° | -121.319969 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_184 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.44 | Rating ** | U | Issue No. | 35 |
| LM End | 2.48 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.918498 ° | 37.918515 ° |
| | | | | -121.321078 ° | -121.321110 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_35 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

Photo 1 of 1 : richard_s_20140320_146.jpg



Looking southwest at dense vegetation on landward toe.

| | | | | | |
|--------------------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.46 | Rating ** | M | Issue No. | 36 |
| LM End | 2.50 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.918628 ° | 37.918438 ° |
| | | | | -121.320817 ° | -121.321452 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_36 | | | | |
| Action/Comments | | | | | |
| Note and monitor erosion site. | | | | | |

Photo 1 of 1 : richard_s_20140320_147.jpg



Looking east at erosion on waterside slope.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.48 | Rating ** | M | Issue No. | 80 |
| LM End | 2.48 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.918480 ° | 37.918480 ° |
| | | | | -121.321114 ° | -121.321114 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_80 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

Photo 1 of 2 : richard_s_20140320_182.jpg



Looking southwest at dense vegetation on landside toe.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|--|
| LM Start | 2.48 | Rating ** | M | Issue No. | 80 (cont) | |
| LM End | 2.48 | Issue Type + | Ma | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | Trim / Thin Trees | | | 37.918480 ° | 37.918480 ° | |
| | | | | -121.321114 ° | -121.321114 ° | |
| DWR ID | DWR_RD0524_01_s _ 2012_80 | | | | | |
| Action/Comments | | | | | | |
| Trim trees to at least five feet above ground level. | | | | | | |

Photo 2 of 2 : richard_s_20140320_183.jpg



Looking southwest at dense vegetation and trees on landside slope.
(Fall 2012)

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.52 | Rating ** | U | Issue No. | 37 |
| LM End | 2.52 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.918345 ° | 37.918302 ° |
| | | | | -121.321765 ° | -121.321923 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_37 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

Photo 1 of 4 : richard_s_20140320_148.jpg



Looking south at elderberry on landside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.52 | Rating ** | U | Issue No. | 37 (cont) |
| LM End | 2.52 | Issue Type + | Ma | Location * | LS |

Photo 2 of 4 : richard_s_20140320_149.jpg



Looking southwest at trees along levee landside toe.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.52 | Rating ** | U | Issue No. | 37 (cont) |
| LM End | 2.52 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.918345 ° | 37.918302 ° |
| | | | | -121.321765 ° | -121.321923 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_37 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

Photo 3 of 4 : richard_s_20140320_150.jpg



Looking north at elderberry and trees on landside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.52 | Rating ** | U | Issue No. | 37 (cont) |
| LM End | 2.52 | Issue Type + | Ma | Location * | LS |

Photo 4 of 4 : richard_s_20140320_151.jpg



Looking southwest at dense vegetation on landside toe.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.53 | Rating ** | U | Issue No. | 38 |
| LM End | 2.53 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.918287 ° | 37.918287 ° |
| | | | | -121.321980 ° | -121.321980 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_38 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

Photo 1 of 2 : richard_s_20140320_152.jpg



Looking south at elderberry on waterside slope.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.53 | Rating ** | U | Issue No. | 38 (cont) |
| LM End | 2.53 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.918287 ° | 37.918287 ° |
| | | | | -121.321980 ° | -121.321980 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_38 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

Photo 2 of 2 : richard_s_20140320_153.jpg



Looking north at elderberry on waterside slope.

| | | | | | |
|---------------------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.55 | Rating ** | M | Issue No. | 82 |
| LM End | 2.59 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.918060 ° | 37.917667 ° |
| | | | | -121.322384 ° | -121.322713 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_82 | | | | |
| Action/Comments | | | | | |
| Repair slope instability. | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.56 | Rating ** | M | Issue No. | 40 |
| LM End | 2.56 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.918047 ° | 37.918047 ° |
| | | | | -121.322415 ° | -121.322415 ° |
| DWR ID | DWR_RD0524_01_s_2012_40 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.59 | Rating ** | M | Issue No. | 41 |
| LM End | 2.59 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.917673 ° | 37.917673 ° |
| | | | | -121.322718 ° | -121.322718 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_41 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.59 | Rating ** | U | Issue No. | 42 |
| LM End | 2.59 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.917673 ° | 37.917673 ° |
| | | | | -121.322718 ° | -121.322718 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_42 | | | | |
| Action/Comments | | | | | |
| Building Inspector Comments: Animal pens on landward slope and toe. | | | | | |

Photo 1 of 2 : richard_s_20140320_156.jpg



Looking at animal pens on landside slope and toe.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.59 | Rating ** | U | Issue No. | 42 (cont) |
| LM End | 2.59 | Issue Type + | En | Location * | WS |

Photo 2 of 2 : richard_s_20140320_157.jpg



Looking west at animal pens on landside toe. (Fall 2012)

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.59 | Rating ** | M | Issue No. | 7 |
| LM End | 2.59 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.917431 ° | 37.917431 ° |
| | | | | -121.322780 ° | -121.322780 ° |
| DWR ID | DWR_RD0524_01_f_2012_7 | | | | |
| Action/Comments | | | | | |
| Ramp | | | | | |

Photo 1 of 1 : richard_s_20140320_112.jpg



Looking southeast at unauthorized ramp on waterside slope.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.60 | Rating ** | M | Issue No. | 12 |
| LM End | 2.60 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.917538 ° | 37.917538 ° |
| | | | | -121.322757 ° | -121.322757 ° |
| DWR ID | DWR_RD0524_01_f_2012_12 | | | | |
| Action/Comments | | | | | |
| Pole Inspector Comments: Old fence poles on landside shoulder and slope should be removed. | | | | | |

Photo 1 of 1 : richard_s_20140320_117.jpg



Looking northwest at fence poles on landside shoulder.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.60 | Rating ** | M | Issue No. | 917 |
| LM End | 2.60 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.917475 ° | 37.917475 ° |
| | | | | -121.322808 ° | -121.322808 ° |
| DWR ID | DWR_RD0524_01_s_2012_917 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by livestock and prevent large animal access. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.61 | Rating ** | M | Issue No. | 156 |
| LM End | 2.61 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.917365 ° | 37.917365 ° |
| | | | | -121.322779 ° | -121.322779 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_156 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:21935 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Need to determine type of abandonment for pipe at this location. | | | | | |
| FIELD_STRUCT_DESC: *Abandoned* Pump pad on LS shoulder with 4'X9' brick distribution box on WS slope. No pipe visible. 4'X9' brick distribution box on LS toe. | | | | | |
| FS Date: 8/20/2013 | | | | | |

Photo 1 of 1 : UCIP_2789.jpg



Foundation for pump with distribution box on WS shoulder.

| | | | | | |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.61 | Rating ** | A/W | Issue No. | 9 |
| LM End | 2.61 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.917228 ° | 37.917228 ° |
| | | | | -121.322730 ° | -121.322730 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_9 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.63 | Rating ** | M | Issue No. | 185 |
| LM End | 2.66 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.917152 ° | 37.916807 ° |
| | | | | -121.322582 ° | -121.322069 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_185 | | | | |
| Action/Comments | | | | | |
| Thin trees to allow visibility of the ground and room to flood fight. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.65 | Rating ** | U | Issue No. | 135 |
| LM End | 2.65 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.916650 ° | 37.916650 ° |
| | | | | -121.321980 ° | -121.321980 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_135 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2013 Site ID:RD0524U01RM43.23] | | | | | |

Photo 1 of 1 : richard_s_20140320_226.jpg



Upstream view of erosion. Levee slope protection present upstream of the site.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.66 | Rating ** | M | Issue No. | 43 |
| LM End | 2.66 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.916780 ° | 37.916780 ° |
| | | | | -121.322095 ° | -121.322095 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_43 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.67 | Rating ** | M | Issue No. | 918 |
| LM End | 2.69 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.916718 ° | 37.916502 ° |
| | | | | -121.322020 ° | -121.321980 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_918 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.67 | Rating ** | U | Issue No. | 920 |
| LM End | 2.67 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.916698 ° | 37.916698 ° |
| | | | | -121.322007 ° | -121.322007 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_920 | | | | |
| Action/Comments | | | | | |
| Ramp | | | | | |

Photo 1 of 1 : richard_s_20140320_250.jpg



Looking southeast at unauthorized ramp on waterside slope.

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.67 | Rating ** | M | Issue No. | 919 |
| LM End | 2.67 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.916650 ° | 37.916650 ° |
| | | | | -121.321987 ° | -121.321987 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_919 | | | | |
| Action/Comments | | | | | |
| Schedule repair of erosion site prior to the next inspection. | | | | | |

No Photos

* Location
LS : Land Side
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CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.69 | Rating ** | M | Issue No. | 44 |
| LM End | 2.80 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.916418 ° | 37.915142 ° |
| | | | | -121.321963 ° | -121.323018 ° |
| DWR ID | DWR_RD0524_01_s_2012_44 | | | | |
| Action/Comments | | | | | |
| Trim trees over roadway to at least 12 feet above ground level. Inspector Comments: Trim over hanging trees at least 12 feet above ground level. | | | | | |

Photo 1 of 1 : richard_s_20140320_158.jpg



Looking north at dense trees overhanging levee crown.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.71 | Rating ** | M | Issue No. | 21 |
| LM End | 2.71 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.916224 ° | 37.916224 ° |
| | | | | -121.322115 ° | -121.322115 ° |
| DWR ID | DWR_RD0524_01_f_2013_21 | | | | |
| Action/Comments | | | | | |
| Schedule repair of erosion site prior to the next inspection. Inspector Comments: Large erosion around irrigation pipe. | | | | | |

Photo 1 of 2 : richard_s_20140320_134.jpg



Looking east at erosion around irrigation pipe on waterward slope.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.71 | Rating ** | M | Issue No. | 21 (cont) |
| LM End | 2.71 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : richard_s_20140320_135.jpg



Looking at erosion around irrigation pipe on waterward slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.73 | Rating ** | A/W | Issue No. | 264 |
| LM End | 2.73 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.915968 ° | 37.915968 ° |
| | | | | -121.322275 ° | -121.322275 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_264 | | | | |
| Action/Comments | | | | | |
| Trim trees over roadway to at least 12 feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.73 | Rating ** | M | Issue No. | 60 |
| LM End | 2.77 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.915747 ° | 37.915492 ° |
| | | | | -121.322470 ° | -121.322639 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_60 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
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M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
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En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

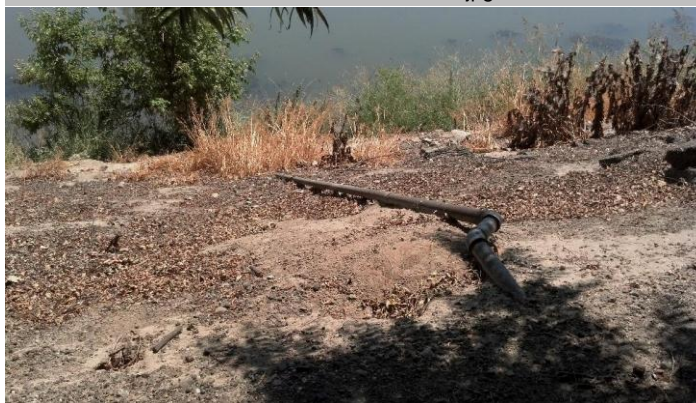
Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.75 | Rating ** | M | Issue No. | 157 |
| LM End | 2.75 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.915698 ° | 37.915698 ° |
| | | | | -121.322501 ° | -121.322501 ° |
| DWR ID | DWR_RD0524_01_s_2014_157 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18085 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: No permit identified for crossing. Unknoww use. | | | | | |
| Pipe should be removed. | | | | | |
| FIELD_STRUCT_DESC: 3-inch galvanized iron pipe through the levee | | | | | |
| 0.3 feet below the crown. Valve on the landward shoulder. | | | | | |
| FS Date: 8/20/2013 3:28:19 PM | | | | | |

Photo 1 of 1 : UCIP_1644.jpg



Pipe visible on WS slope.

| | | | | | |
|---|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 2.77 | Rating ** | A/W | Issue No. | 70 |
| LM End | 2.77 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.915503 ° | 37.915503 ° |
| | | | | -121.322745 ° | -121.322745 ° |
| DWR ID | DWR_RD0524_01_s_2012_70 | | | | |
| Action/Comments | | | | | |
| Tree or limb | | | | | |
| Inspector Comments: Broken tree branch. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.81 | Rating ** | M | Issue No. | 921 |
| LM End | 2.81 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.915125 ° | 37.915125 ° |
| | | | | -121.323227 ° | -121.323227 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_921 | | | | |
| Action/Comments | | | | | |
| Prunings | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.82 | Rating ** | U | Issue No. | 48 |
| LM End | 2.82 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.915022 ° | 37.915022 ° |
| | | | | -121.323443 ° | -121.323443 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_48 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

Photo 1 of 2 : richard_s_20140320_163.jpg



Looking south at elderberry on landside slope.(Spring 2011)

Photo 2 of 2 : richard_s_20140320_164.jpg



Looking south at dense elderberry on landside slope.(Spring 2012)

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
| | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.83 | Rating ** | U | Issue No. | 91 |
| LM End | 2.83 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.915063 ° | 37.915063 ° |
| | | | | -121.323585 ° | -121.323585 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_91 | | | | |
| Action/Comments | | | | | |
| Thin trees to allow visibility of the ground and room to flood fight. | | | | | |

Photo 1 of 1 : richard_s_20140320_188.jpg



Looking southwest at dense vegetation on landside slope.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.88 | Rating ** | U | Issue No. | 49 |
| LM End | 2.88 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.914427 ° | 37.914427 ° |
| | | | | -121.324198 ° | -121.324198 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_49 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

Photo 1 of 1 : richard_s_20140320_165.jpg



Looking northwest at elderberry on landside slope.

| | | | | | |
|-----------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.93 | Rating ** | U | Issue No. | 50 |
| LM End | 2.95 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.913767 ° | 37.913503 ° |
| | | | | -121.324427 ° | -121.324488 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_50 | | | | |
| Action/Comments | | | | | |
| Prunings | | | | | |

Photo 1 of 1 : richard_s_20140320_166.jpg



Looking southwest at prunings on landside slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.96 | Rating ** | M | Issue No. | 51 |
| LM End | 2.96 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.913415 ° | 37.913415 ° |
| | | | | -121.324503 ° | -121.324503 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_51 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.96 | Rating ** | U | Issue No. | 139 |
| LM End | 2.96 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.913010 ° | 37.913010 ° |
| | | | | -121.324490 ° | -121.324490 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_139 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. [2013 Site ID:RD0524U01RM43.52] | | | | | |

Photo 1 of 1 : richard_s_20140320_228.jpg



Front view of erosion.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.98 | Rating ** | M | Issue No. | 158 |
| LM End | 2.98 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.913101 ° | 37.913101 ° |
| | | | | -121.324500 ° | -121.324500 ° |
| DWR ID | DWR_RD0524_01_s_2014_158 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18089 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Review crossing with inspector as records indicate that this should be an 8-inch pipe through levee 3.0 feet below crown, pump on landward side. Siphon breaker on the waterward slope. | | | | | |
| Originally included in the 1964 O&M manual. | | | | | |
| FIELD_STRUCT_DESC: 16-inch wrapped steel storm discharge pipe through the levee 1.5-feet below the crown. Pump on steel pile structure at drainage canal off LS toe. | | | | | |
| FS Date: 8/20/2013 | | | | | |

Photo 1 of 1 : UCIP_1646.jpg



Pipe, pump, power pole, and meter visible off LS toe.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.04 | Rating ** | M | Issue No. | 924 |
| LM End | 3.04 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.912163 ° | 37.912163 ° |
| | | | | -121.324702 ° | -121.324702 ° |
| DWR ID | DWR_RD0524_01_s_2012_924 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by livestock and prevent large animal access. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.10 | Rating ** | M | Issue No. | 925 |
| LM End | 3.12 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.911382 ° | 37.911088 ° |
| | | | | -121.324928 ° | -121.325113 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_925 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. | | | | | |

No Photos

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.29 | Rating ** | U | Issue No. | 141 |
| LM End | 3.31 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.908090 ° | 37.908090 ° |
| | | | | -121.325090 ° | -121.325090 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_141 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: The levee toe seems to have been protected by river rocks and vegetation on site. [2013 Site ID:RD0524U01RM43.86] | | | | | |

Photo 1 of 1 : richard_s_20140320_229.jpg



Front view of erosion.

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.30 | Rating ** | M | Issue No. | 186 |
| LM End | 3.30 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.908551 ° | 37.908551 ° |
| | | | | -121.325381 ° | -121.325381 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_186 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.33 | Rating ** | A/W | Issue No. | 926 |
| LM End | 3.35 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.908158 ° | 37.907872 ° |
| | | | | -121.325418 ° | -121.325443 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_926 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 3.37 | Rating ** | A/W | Issue No. | 52 |
| LM End | 3.40 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.907645 ° | 37.907157 ° |
| | | | | -121.325442 ° | -121.325408 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_52 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.38 | Rating ** | M | Issue No. | 159 |
| LM End | 3.38 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.907503 ° | 37.907503 ° |
| | | | | -121.325420 ° | -121.325420 ° |
| DWR ID | DWR_RD0524_01_s_2014_159 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18091 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Extensive erosion on LS toe at distribution box due to failure of box/pipe connection. Erosion on LS slope do to recently repaired leak at gate valve. | | | | | |
| FIELD_STRUCT_DESC: 14-inch steel irrigation pipe through the levee 7-feet below the crown, pump house on the waterward slope. Gate valve on the LS slope and a 4'X4' brick distribution box at the LS toe. Originally included in the 1964 O&M manual. | | | | | |
| FS Date: 8/20/2013 | | | | | |

Photo 1 of 1 : UCIP_1650.jpg



Pipe and pumphouse on WS slope.

| | | | | | |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.38 | Rating ** | U | Issue No. | 92 |
| LM End | 3.39 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.907407 ° | 37.907177 ° |
| | | | | -121.325435 ° | -121.325392 ° |
| DWR ID | DWR_RD0524_01_s_2012_92 | | | | |
| Action/Comments | | | | | |
| Landscaping | | | | | |

Photo 1 of 1 : richard_s_20140320_189.jpg



Looking southwest at dense landscaping on landside slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.39 | Rating ** | M | Issue No. | 53 |
| LM End | 3.45 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.907283 ° | 37.906503 ° |
| | | | | -121.325432 ° | -121.325002 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_53 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.43 | Rating ** | U | Issue No. | 54 |
| LM End | 3.49 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.906747 ° | 37.906192 ° |
| | | | | -121.325248 ° | -121.324543 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_54 | | | | |
| Action/Comments | | | | | |
| Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |

Photo 1 of 1 : richard_s_20140320_167.jpg



Looking northwest at dense vegetation on landside slope.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.45 | Rating ** | M | Issue No. | 56 |
| LM End | 3.45 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.906540 ° | 37.906540 ° |
| | | | | -121.325015 ° | -121.325015 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_56 | | | | |
| Action/Comments | | | | | |
| Material | | | | | |
| Inspector Comments: Broken concrete pipes | | | | | |

Photo 1 of 1 : richard_s_20140320_169.jpg



Looking southwest at concrete pipes on landside toe.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.47 | Rating ** | U | Issue No. | 93 |
| LM End | 3.47 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.906265 ° | 37.906265 ° |
| | | | | -121.324643 ° | -121.324643 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_93 | | | | |
| Action/Comments | | | | | |
| Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |

Photo 1 of 1 : richard_s_20140320_190.jpg



Looking northwest at low hanging tree branches on landside slope and toe.

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.53 | Rating ** | M | Issue No. | 265 |
| LM End | 3.53 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.905552 ° | 37.905552 ° |
| | | | | -121.323847 ° | -121.323847 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_265 | | | | |
| Action/Comments | | | | | |
| Ramp Inspector Comments: Unauthorized ramp on landside slope. | | | | | |

Photo 1 of 1 : richard_s_20140320_241.jpg



Looking southeast at unauthorized ramp on landside slope and toe.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.54 | Rating ** | U | Issue No. | 57 |
| LM End | 3.64 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.905638 ° | 37.904430 ° |
| | | | | -121.323892 ° | -121.324570 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_57 | | | | |
| Action/Comments | | | | | |
| Trim and thin trees to allow visibility of the ground and room to flood fight. | | | | | |

Photo 1 of 1 : richard_s_20140411_525.jpg



Looking south at dense trees on landward slope.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.55 | Rating ** | U | Issue No. | 142 |
| LM End | 3.58 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.904630 ° | 37.904630 ° |
| | | | | -121.323610 ° | -121.323610 ° |
| DWR ID | DWR_RD0524_01_s_2014_142 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The levee toe has been cut off along a 150 ft. long river stretch. The erosion is located just upstream of a river bend. [2013 Site ID:RD0524U01RM44.13] | | | | | |

Photo 1 of 1 : richard_s_20140320_230.jpg



Front view of erosion.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.65 | Rating ** | M | Issue No. | 124 |
| LM End | 3.65 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.904375 ° | 37.904375 ° |
| | | | | -121.324615 ° | -121.324615 ° |
| DWR ID | DWR_RD0524_01_f_2012_124 | | | | |
| Action/Comments | | | | | |
| Landscaping Inspector Comments: Landowner planted cactus on landside toe. | | | | | |

Photo 1 of 1 : richard_s_20140320_216.jpg



Looking west at cactus on landside toe.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.68 | Rating ** | M | Issue No. | 58 |
| LM End | 3.68 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.904113 ° | 37.904113 ° |
| | | | | -121.325080 ° | -121.325080 ° |
| DWR ID | DWR_RD0524_01_s_2012_58 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |
| Inspector Comments: Landowner cut steps into waterside slope. | | | | | |

Photo 1 of 1 : richard_s_20140320_170.jpg



Looking southeast steps cut into waterside slope.

| | | | | | |
|-----------------|--|---|--|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | | A : Acceptable | | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | | En : Enforcement | |
| | | N : Not Inspected/Rated | | | |
| | | C : Corrected | | | |
| | | A/W : Acceptable but Monitor & Maintain | | | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.80 | Rating ** | M | Issue No. | 927 |
| LM End | 3.80 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.902645 ° | 37.902645 ° |
| | | | | -121.326340 ° | -121.326340 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_927 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.82 | Rating ** | M | Issue No. | 59 |
| LM End | 3.82 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.902417 ° | 37.902417 ° |
| | | | | -121.326482 ° | -121.326482 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_59 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.82 | Rating ** | M | Issue No. | 160 |
| LM End | 3.82 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.902371 ° | 37.902371 ° |
| | | | | -121.326439 ° | -121.326439 ° |
| DWR ID | DWR_RD0524_01_s_2014_160 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:22725 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: No permit identified for this crossing. | | | | | |
| FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee 0-feet below the crown. Pipe integrated into steel cattelguard style crossing. Slant pump and butterfly valve at concrete foundation on WS slope. Filter plant, vents, and butterfly valves on LS toe. | | | | | |
| FS Date: 8/20/2013 | | | | | |

Photo 1 of 1 : UCIP_3049.jpg



Pump and butterfly valve on concrete pad on WS shoulder.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.82 | Rating ** | M | Issue No. | 266 |
| LM End | 3.82 | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.902365 ° | 37.902365 ° |
| | | | | -121.326453 ° | -121.326453 ° |
| DWR ID | DWR_RD0524_01_s_2012_266 | | | | |
| Action/Comments | | | | | |
| Equipment | | | | | |
| Inspector Comments: Landowner installed water filter piping system without permit. | | | | | |

Photo 1 of 3 : richard_s_20140320_242.jpg



Looking south at unauthorized irrigation pipe across levee and water filtration system at landside toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.82 | Rating ** | M | Issue No. | 266 (cont) |
| LM End | 3.82 | Issue Type + | En | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.902365 ° | 37.902365 ° |
| | | | | -121.326453 ° | -121.326453 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_266 | | | | |
| Action/Comments | | | | | |
| Equipment | | | | | |
| Inspector Comments: Landowner installed water filter piping system without permit. | | | | | |

Photo 2 of 3 : richard_s_20140320_243.jpg



Looking west at water filtration system on landside toe.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 3.82 | Rating ** | M | Issue No. | 266 (cont) |
| LM End | 3.82 | Issue Type + | En | Location * | CR |

Photo 3 of 3 : richard_s_20140320_244.jpg



Looking south unauthorized pvc irrigation pipe across the levee crown.

| | | | | | |
|---------------------------------|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.82 | Rating ** | M | Issue No. | 161 |
| LM End | 3.82 | Issue Type + | En | Location * | CR |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.902361 ° | 37.902361 ° |
| | | | | -121.326443 ° | -121.326443 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_161 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18307 | | | | | |

Photo 1 of 1 : UCIP_1654.jpg



Slant pump visible at concrete foundation on WS slope. Pumphouse removed.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.84 | Rating ** | M | Issue No. | 928 |
| LM End | 3.85 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.902155 ° | 37.902002 ° |
| | | | | -121.326523 ° | -121.326550 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_928 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.89 | Rating ** | M | Issue No. | 187 |
| LM End | 3.89 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.901447 ° | 37.901447 ° |
| | | | | -121.326500 ° | -121.326500 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_187 | | | | |
| Action/Comments | | | | | |
| Tree or limb | | | | | |
| Inspector Comments: Tree limb on waterward shoulder. | | | | | |

Photo 1 of 1 : richard_s_20140411_526.jpg



Looking northeast at tree limb on waterward slope.

| | | | | | |
|-----------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.89 | Rating ** | M | Issue No. | 62 |
| LM End | 4.01 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.901375 ° | 37.899745 ° |
| | | | | -121.326507 ° | -121.326630 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_62 | | | | |
| Action/Comments | | | | | |
| Equipment | | | | | |

Photo 1 of 2 : richard_s_20140320_171.jpg



Looking upstream at equipment on landside shoulder

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | | |
|-----------------|---------------------------|--------------|----|------------------------|---------------|-----|
| LM Start | 3.89 | Rating ** | M | Issue No. | 62 (cont) | |
| LM End | 4.01 | Issue Type + | En | Location * | LS | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Encroachments | | | 37.901375 ° | 37.899745 ° | |
| | | | | -121.326507 ° | -121.326630 ° | |
| DWR ID | DWR_RD0524_01_s _ 2012_62 | | | | | |
| Action/Comments | | | | | | |
| Equipment | | | | | | |

Photo 2 of 2 : richard_s_20140320_172.jpg



Looking south at northend of equipment stored at landward slope and toe.

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.91 | Rating ** | U | Issue No. | 95 |
| LM End | 3.94 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.901147 ° | 37.900735 ° |
| | | | | -121.326453 ° | -121.326425 ° |
| DWR ID | DWR_RD0524_01_f _ 2013_95 | | | | |
| Action/Comments | | | | | |
| Equipment | | | | | |
| Inspector Comments: Landowner is storing equipment on landward shoulder and landward toe. | | | | | |

Photo 1 of 3 : richard_s_20140320_192.jpg



Looking south at farm equipment stored on landward shoulder and toe.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 3.91 | Rating ** | U | Issue No. | 95 (cont) |
| LM End | 3.94 | Issue Type + | En | Location * | LS |

Photo 2 of 3 : richard_s_20140320_193.jpg



Looking west at farm equipment stored at landward toe.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.91 | Rating ** | U | Issue No. | 95 (cont) |
| LM End | 3.94 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.901147 ° | 37.900735 ° |
| | | | | -121.326453 ° | -121.326425 ° |
| DWR ID | DWR_RD0524_01_f_2013_95 | | | | |
| Action/Comments | | | | | |
| Equipment | | | | | |

Photo 3 of 3 : richard_s_20140320_194.jpg



Looking north at farm equipment stored on landward shoulder.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.92 | Rating ** | M | Issue No. | 94 |
| LM End | 3.92 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.900952 ° | 37.900952 ° |
| | | | | -121.326443 ° | -121.326443 ° |
| DWR ID | DWR_RD0524_01_s_2012_94 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Remove cactus | | | | | |

Photo 1 of 1 : richard_s_20140320_191.jpg



Looking southeast at cactus on waterside slope.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.93 | Rating ** | M | Issue No. | 83 |
| LM End | 3.93 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.900854 ° | 37.900854 ° |
| | | | | -121.326438 ° | -121.326438 ° |
| DWR ID | DWR_RD0524_01_s_2012_83 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.06 | Rating ** | U | Issue No. | 101 |
| LM End | 4.06 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.899027 ° | 37.899027 ° |
| | | | | -121.326982 ° | -121.326982 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_101 | | | | |
| Action/Comments | | | | | |
| Ramp | | | | | |
| Inspector Comments: Unauthorized ramp. Ramp does not meet Title 23 standard. | | | | | |

Photo 1 of 1 : richard_s_20140320_196.jpg



Looking west at unauthorized ramp on landside slope.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.07 | Rating ** | M | Issue No. | 61 |
| LM End | 4.07 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.898925 ° | 37.898925 ° |
| | | | | -121.327015 ° | -121.327015 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_61 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.07 | Rating ** | M | Issue No. | 162 |
| LM End | 4.07 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.898853 ° | 37.898853 ° |
| | | | | -121.327049 ° | -121.327049 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_162 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18314 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Appears abandoned and if so should be done so properly. | | | | | |
| FIELD_STRUCT_DESC: 8-inch concrete encased pipe through the levee 9.5-feet below crown, pump and gate valve in pump house on the waterward slope. Slide gate in 42-inch corrugated metal pipe riser on the waterward slope. Brick standpipe at the toe of the landward slope. 1.5-inch galvanized iron electrical conduit through the levee 3-feet below the crown at the same location. Originally included in the 1964 O&M manual. | | | | | |
| FS Date: 8/20/2013 | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.08 | Rating ** | M | Issue No. | 64 |
| LM End | 4.13 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.898832 ° | 37.898090 ° |
| | | | | -121.327092 ° | -121.327457 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_64 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---------------------------|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.13 | Rating ** | M | Issue No. | 108 |
| LM End | 4.13 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.898035 ° | 37.898035 ° |
| | | | | -121.327447 ° | -121.327447 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_108 | | | | |
| Action/Comments | | | | | |
| Repair slope instability. | | | | | |

Photo 1 of 1 : richard_s_20140320_201.jpg



Looking southwest at caving slope on landside of levee.

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.19 | Rating ** | M | Issue No. | 110 |
| LM End | 4.19 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.897103 ° | 37.897103 ° |
| | | | | -121.327895 ° | -121.327895 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_110 | | | | |
| Action/Comments | | | | | |
| Ramp Inspector Comments: Two unauthorized ramps on landward slope. | | | | | |

Photo 1 of 1 : richard_s_20140320_206.jpg



Looking southwest at an unauthorized ramp on landside slope.

| | | | | | |
|---|------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.19 | Rating ** | M | Issue No. | 109 |
| LM End | 4.19 | Issue Type + | Ma | Location * | WS |
| Category | Interior Drainage & Piping Systems | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Metal Pipes | | | 37.897113 ° | 37.897113 ° |
| | | | | -121.327895 ° | -121.327895 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_109 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: Landowner has temporarily repaired pipe with tape. Pipe should be replaced to stop further damage to the levee. | | | | | |

Photo 1 of 4 : richard_s_20140320_202.jpg



Looking east at damaged pipe on waterside slope. (Spring 2012)

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.19 | Rating ** | M | Issue No. | 109 (cont) |
| LM End | 4.19 | Issue Type + | Ma | Location * | WS |
| Category | Interior Drainage & Piping Systems | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Metal Pipes | | | 37.897113 ° | 37.897113 ° |
| | | | | -121.327895 ° | -121.327895 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_109 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: Landowner has temporarily repaired pipe with tape. Pipe should be replaced to stop further damage to the levee. | | | | | |

Photo 2 of 4 : richard_s_20140320_203.jpg



Looking east at irrigation system damaging waterside toe.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 4.19 | Rating ** | M | Issue No. | 109 (cont) |
| LM End | 4.19 | Issue Type + | Ma | Location * | WS |

Photo 3 of 4 : richard_s_20140320_204.jpg



Looking east at irrigation system on waterside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 4.19 | Rating ** | M | Issue No. | 109 (cont) |
| LM End | 4.19 | Issue Type + | Ma | Location * | WS |

Photo 4 of 4 : richard_s_20140320_205.jpg



Looking northeast at overview of irrigation system on waterside slope.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---------------------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.20 | Rating ** | M | Issue No. | 163 |
| LM End | 4.20 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.897117 ° | 37.897117 ° |
| | | | | -121.327909 ° | -121.327909 ° |
| DWR ID | DWR_RD0524_01_s_2014_163 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18318 | | | | | |

Photo 1 of 1 : UCIP_1664.jpg



Concrete standpipe on LS slope.

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.21 | Rating ** | M | Issue No. | 164 |
| LM End | 4.21 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.897074 ° | 37.897074 ° |
| | | | | -121.327926 ° | -121.327926 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_164 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:22069 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: No permit identified for this crossing. | | | | | |
| FIELD_STRUCT_DESC: 2.25-inch PVC domestic water service | | | | | |
| through the levee 5-feet below the crown. Pump and tank on WS slope | | | | | |
| with a vent on the LS slope. | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 1 : UCIP_2813.jpg



Pipe, pump, and tank visible on WS slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.40 | Rating ** | M | Issue No. | 65 |
| LM End | 4.56 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.894587 ° | 37.892493 ° |
| | | | | -121.329253 ° | -121.328267 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_65 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |

No Photos

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.41 | Rating ** | M | Issue No. | 165 |
| LM End | 4.41 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.894453 ° | 37.894453 ° |
| | | | | -121.329232 ° | -121.329232 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_165 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18320 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Small leak in pipe on LS slope and pipe slightly crushed on LS toe. | | | | | |
| FIELD_STRUCT_DESC: 9-inch steel stormdrain pipe through the levee 3.0 feet below the crown, pump in drain ditch on the landward side. | | | | | |
| Siphon breaker on the waterward slope. Originally included in the 1964 O&M manual. | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 1 : UCIP_1669.jpg



Pipe and siphon breaker on WS slope.

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.42 | Rating ** | M | Issue No. | 111 |
| LM End | 4.42 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.894258 ° | 37.894258 ° |
| | | | | -121.329247 ° | -121.329247 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_111 | | | | |
| Action/Comments | | | | | |
| Tree or limb | | | | | |
| Inspector Comments: Dead tree at landside toe should be removed from levee toe. | | | | | |

Photo 1 of 1 : richard_s_20140320_207.jpg



Looking west at dead tree at landside toe.

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.44 | Rating ** | M | Issue No. | 112 |
| LM End | 4.58 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.893928 ° | 37.892230 ° |
| | | | | -121.329203 ° | -121.328187 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_112 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.53 | Rating ** | U | Issue No. | 143 |
| LM End | 4.54 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.892230 ° | 37.892230 ° |
| | | | | -121.327930 ° | -121.327930 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_143 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: Erosion is located at the inside of a river bend. Site is covered with broken concrete blocks and other debris. [2013 Site ID:RD0524U01RM45.07] | | | | | |

Photo 1 of 1 : richard_s_20140320_231.jpg



Upstream view of erosion site.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.57 | Rating ** | M | Issue No. | 102 |
| LM End | 4.57 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.892368 ° | 37.892368 ° |
| | | | | -121.328200 ° | -121.328200 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_102 | | | | |
| Action/Comments | | | | | |
| Prunings | | | | | |

Photo 1 of 1 : richard_s_20140320_197.jpg



Looking southeast at dead tree on waterside slope.

| | | | | | |
|-----------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.64 | Rating ** | M | Issue No. | 66 |
| LM End | 4.64 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.891365 ° | 37.891365 ° |
| | | | | -121.328633 ° | -121.328633 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_66 | | | | |
| Action/Comments | | | | | |
| Garbage | | | | | |

Photo 1 of 1 : richard_s_20140320_174.jpg



Garbage at landward toe next to ramp at LM 4.64

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.65 | Rating ** | M | Issue No. | 63 |
| LM End | 4.65 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.891285 ° | 37.891285 ° |
| | | | | -121.328728 ° | -121.328728 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_63 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

Photo 1 of 1 : richard_s_20140320_173.jpg



Looking south at dense trees on landside slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.67 | Rating ** | A/W | Issue No. | 113 |
| LM End | 4.67 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.890973 ° | 37.890973 ° |
| | | | | -121.328970 ° | -121.328970 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_113 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

Photo 1 of 1 : richard_s_20140320_208.jpg



Looking north at dense trees on landside slope.

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.71 | Rating ** | M | Issue No. | 144 |
| LM End | 4.71 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.889809 ° | 37.889809 ° |
| | | | | -121.329342 ° | -121.329342 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_144 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: Cracking erosion along the levee bank. Erosion appears to be caused by river flows. [2013 Site ID:RD0524U01RM45.27] | | | | | |

Photo 1 of 1 : richard_s_20140320_232.jpg



Front view of the erosion.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.73 | Rating ** | M | Issue No. | 166 |
| LM End | 4.73 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.890313 ° | 37.890313 ° |
| | | | | -121.329405 ° | -121.329405 ° |
| DWR ID | DWR_RD0524_01_s_2014_166 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18323 | | | | | |
| EP_NO: 0 | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Good candidate for video inspection as brick and mortar deteriorating inside tunnel. | | | | | |
| FIELD_STRUCT_DESC: 22-inch concrete pipe through the levee 12.0 feet below the crown. Pump on pier at WS toe. 16-inch pipe from pump discharges into a concrete riser inside the pumphouse on the WS shoulder. Brick and mortar channel on LS toe. Originally included in the 1964 O&M manual. | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 1 : UCIP_1672.jpg



Pump on pier and slide gate house on WS shoulder.

| | | | | | |
|--|-------------------------|--------------|-----|------------------------|---------------|
| LM Start | 4.74 | Rating ** | A/W | Issue No. | 67 |
| LM End | 4.74 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.890108 ° | 37.890108 ° |
| | | | | -121.329523 ° | -121.329523 ° |
| DWR ID | DWR_RD0524_01_s_2012_67 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |
| Inspector Comments: Fig tree at landside toe. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.94 | Rating ** | M | Issue No. | 167 |
| LM End | 4.94 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.887694 ° | 37.887694 ° |
| | | | | -121.331019 ° | -121.331019 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_167 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:22728 EP_NO: 3817 Repair Type: Crossing Status: UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 6-inch steel pipe through the levee 3.0 feet below the crown, pump 120-feet off the LS toe. Siphon breaker in 24-inch CMP on the waterward shoulder (Permit No. 3817) Originally included in the 1964 O&M manual. FS Date: 8/23/2013 | | | | | |

Photo 1 of 1 : UCIP_3054.jpg



Pump over sump 120-feet off LS toe at end of drainage channel.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.98 | Rating ** | M | Issue No. | 84 |
| LM End | 4.98 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.887277 ° | 37.887277 ° |
| | | | | -121.331609 ° | -121.331609 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_84 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.01 | Rating ** | M | Issue No. | 114 |
| LM End | 5.03 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.886907 ° | 37.886673 ° |
| | | | | -121.331862 ° | -121.331965 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_114 | | | | |
| Action/Comments | | | | | |
| Elderberries are blocking visibility and flood fight capability. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.10 | Rating ** | M | Issue No. | 71 |
| LM End | 5.12 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.885613 ° | 37.885286 ° |
| | | | | -121.332139 ° | -121.332167 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_71 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.11 | Rating ** | U | Issue No. | 68 |
| LM End | 5.11 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.885400 ° | 37.885400 ° |
| | | | | -121.332153 ° | -121.332153 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_68 | | | | |
| Action/Comments | | | | | |
| Trim trees over roadway to at least 12 feet above ground level. | | | | | |

Photo 1 of 1 : richard_s_20140320_175.jpg



Looking south at overhanging trees.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.17 | Rating ** | M | Issue No. | 188 |
| LM End | 5.17 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.884627 ° | 37.884627 ° |
| | | | | -121.332172 ° | -121.332172 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_188 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.20 | Rating ** | M | Issue No. | 72 |
| LM End | 5.20 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.884075 ° | 37.884075 ° |
| | | | | -121.332118 ° | -121.332118 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_72 | | | | |
| Action/Comments | | | | | |
| Trim trees over roadway to at least 12 feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.24 | Rating ** | M | Issue No. | 115 |
| LM End | 5.24 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.883587 ° | 37.883587 ° |
| | | | | -121.332100 ° | -121.332100 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_115 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comments: Vehicle traffic created a ramp on landward slope. | | | | | |

Photo 1 of 1 : richard_s_20140320_209.jpg



Looking northwest at slope damage on landward slope.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.26 | Rating ** | M | Issue No. | 116 |
| LM End | 5.26 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.883170 ° | 37.883170 ° |
| | | | | -121.332227 ° | -121.332227 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_116 | | | | |
| Action/Comments | | | | | |
| Tree or limb | | | | | |
| Inspector Comments: Dead tree limbs on waterside slope. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.32 | Rating ** | M | Issue No. | 85 |
| LM End | 5.38 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.882377 ° | 37.881498 ° |
| | | | | -121.332598 ° | -121.332800 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_85 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.38 | Rating ** | U | Issue No. | 147 |
| LM End | 5.38 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.880320 ° | 37.880320 ° |
| | | | | -121.333266 ° | -121.333266 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_147 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: Erosion seems to be getting worse. More material sloughing visible. | | | | | |
| 08/07/2012: Erosion is underneath an irrigation pipe. The likely cause of the erosion is the pipe leakage. [2013 Site ID:RD0524U01RM45.97] | | | | | |

Photo 1 of 1 : richard_s_20140320_235.jpg



Front view of the site.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.43 | Rating ** | M | Issue No. | 932 |
| LM End | 5.46 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.880945 ° | 37.880522 ° |
| | | | | -121.332837 ° | -121.332918 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_932 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.46 | Rating ** | M | Issue No. | 168 |
| LM End | 5.46 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.880584 ° | 37.880584 ° |
| | | | | -121.332901 ° | -121.332901 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_168 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18345 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: flap gate damage and does not work at WS toe. | | | | | |
| Large hole in pipe at WS toe. Pipe appears abandoned and should be done so properly. | | | | | |
| FIELD_STRUCT_DESC: 1 of 2: 12-inch pipe through the levee 6.0-feet below the crown, pump missing from the landward side. Flap gate on the waterward end. Originally included in the 1964 O&M manual. | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 1 : UCIP_1677.jpg



Vent on pipe on WS slope. Possible slurry standpipe that has not yet been used.

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.46 | Rating ** | M | Issue No. | 931 |
| LM End | 5.46 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.880575 ° | 37.880575 ° |
| | | | | -121.332890 ° | -121.332890 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_931 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. | | | | | |

No Photos

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.47 | Rating ** | M | Issue No. | 169 |
| LM End | 5.47 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.880357 ° | 37.880357 ° |
| | | | | -121.332971 ° | -121.332971 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_169 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18348 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Recent work being done on WS slope. Pipe may still be in use. | | | | | |
| FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the levee 6.0 feet below the crown. Pump not found on LS. Originally included in the 1964 O&M manual. | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 1 : UCIP_1679.jpg



No flap gate on end of pipe at WS toe.

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.47 | Rating ** | M | Issue No. | 118 |
| LM End | 5.47 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.880323 ° | 37.880323 ° |
| | | | | -121.332968 ° | -121.332968 ° |
| DWR ID | DWR_RD0524_01_s_2012_118 | | | | |
| Action/Comments | | | | | |
| Repair slope instability. | | | | | |
| Inspector Comments: Slope damage caused by human activity. | | | | | |

Photo 1 of 3 : richard_s_20140320_210.jpg



Looking west at slope damage on landside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 5.47 | Rating ** | M | Issue No. | 118 (cont) |
| LM End | 5.47 | Issue Type + | Ma | Location * | LS |

Photo 2 of 3 : richard_s_20140320_211.jpg



Looking east at slope caving on landside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 5.47 | Rating ** | M | Issue No. | 118 (cont) |
| LM End | 5.47 | Issue Type + | Ma | Location * | LS |

Photo 3 of 3 : richard_s_20140320_212.jpg



Looking southeast at damaged slope.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.48 | Rating ** | M | Issue No. | 73 |
| LM End | 5.48 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.880085 ° | 37.880085 ° |
| | | | | -121.333045 ° | -121.333045 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_73 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.50 | Rating ** | M | Issue No. | 189 |
| LM End | 5.50 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.879998 ° | 37.879998 ° |
| | | | | -121.333079 ° | -121.333079 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_189 | | | | |
| Action/Comments | | | | | |
| Prunings Inspector Comments: Prunings on landward shoulder should be removed. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.57 | Rating ** | M | Issue No. | 96 |
| LM End | 5.57 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.878918 ° | 37.878918 ° |
| | | | | -121.333148 ° | -121.333148 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_96 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.61 | Rating ** | M | Issue No. | 148 |
| LM End | 5.61 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.878920 ° | 37.878920 ° |
| | | | | -121.332670 ° | -121.332670 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_148 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: Larger trees are at the levee shoulder, and an irrigation pump station is next to the erosion site. [2013 Site ID:RD0524U01RM46.06] | | | | | |

Photo 1 of 1 : richard_s_20140320_236.jpg



Front view of the erosion.

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.65 | Rating ** | U | Issue No. | 145 |
| LM End | 5.66 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.877880 ° | 37.877880 ° |
| | | | | -121.332550 ° | -121.332550 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_145 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: The boat survey found no significant change at this site, except slight animal activity was visible at the site. 08/07/2012: : The site has been visited by boat survey. No significant change observed 08/23/2011: No significant changes observed on site. 09/07/2010: No significant changes observed on site. Erosion site is located beneath Howard Road Bridge. Majority of the existing rip rap has slipped, dragging away levee materials and exposing the underlying soft soil. 08/06/2010: Recommend for annual assessment and monitoring during flood events, per CLRO. 09/30/2009: No major changes observed since the last visit; upper portion of existing revetment has slipped, exposing the degrading bank; note that site # is the same as RM46.30, LM5.69 found in the CLRO CES Evaluation 2008 Report; site was previously rated "M". 11/04/2008: Previously repaired using rock revetment; upper portion of the revetment is sliding, causing deformation on the levee slope; site is upstream of Howards Road Bridge. [2013 Site ID:RD0524U01RM46.12] | | | | | |

Photo 1 of 1 : richard_s_20140320_233.jpg



Sloughing rip rap adjacent to Howard Bridge.

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.69 | Rating ** | M | Issue No. | 117 |
| LM End | 5.69 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.877272 ° | 37.877272 ° |
| | | | | -121.332400 ° | -121.332400 ° |
| DWR ID | DWR_RD0524_01_f_2013_117 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.79 | Rating ** | M | Issue No. | 170 |
| LM End | 5.79 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.876001 ° | 37.876001 ° |
| | | | | -121.332725 ° | -121.332725 ° |
| DWR ID | DWR_RD0524_01_s_2014_170 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18367 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: | | | | | |
| FIELD_STRUCT_DESC: 1-inch steel waterline through the levee 1.0-foot below the crown. Pipe visible only on LS shoulder. | | | | | |
| FS Date: 8/23/2013 | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.79 | Rating ** | M | Issue No. | 171 |
| LM End | 5.79 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.876001 ° | 37.876001 ° |
| | | | | -121.332724 ° | -121.332724 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_171 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18364 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Abandoned and should be done so properly. | | | | | |
| FIELD_STRUCT_DESC: 2.25-inch steel conduit for a 1-inch plastic electrical conduit through the levee 0.25-feet below the crown. Lines exposed on both slopes. | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 1 : UCIP_1683.jpg



Steel conduit and electrical conduit visible on the LS shoulder.

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.84 | Rating ** | M | Issue No. | 267 |
| LM End | 5.84 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.875328 ° | 37.875328 ° |
| | | | | -121.333050 ° | -121.333050 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_267 | | | | |
| Action/Comments | | | | | |
| Prunings | | | | | |
| Inspector Comments: Prunings at landside toe should be burned or removed. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.86 | Rating ** | U | Issue No. | 146 |
| LM End | 5.86 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR Erosion Survey | | | 37.874370 ° | 37.874370 ° |
| | | | | -121.332850 ° | -121.332850 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_146 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 08/13/2013: No significant change observed. 08/07/2012: The erosion is near a water-intake structure. Pipe leakage likely caused the erosion. [2013 Site ID:RD0524U01RM46.39] | | | | | |

Photo 1 of 1 : richard_s_20140320_234.jpg



Closer view of the erosion.

| | | | | | |
|--|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 5.86 | Rating ** | A/W | Issue No. | 69 |
| LM End | 5.86 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.877298 ° | 37.875073 ° |
| | | | | -121.332343 ° | -121.333168 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_69 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: District has grouted rodent holes. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|----------|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.87 | Rating ** | M | Issue No. | 172 |
| LM End | 5.87 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.874972 ° | 37.874972 ° |
| | | | | -121.333245 ° | -121.333245 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_172 | | | | |

Action/Comments

Inspector Comments: FS_ID:18369

EP_NO: N/A

Repair Type:

Crossing Status:

UCIP Comments: Apparent leak on WS shoulder at concrete riser.

Erosion under pipe. This may have been fixed when the pipe was

sleeved with a PVC liner.

FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the levee 5.0 feet below the crown. Pump on the landward side. Siphon breaker in a 36-inch concrete riser on the waterward shoulder. Power pole at the landward toe. PVC liner sleeved inside steel pipe.

Originally included in the 1964 O&M manual.

FS Date: 8/23/2013

Photo 1 of 1 : UCIP_1685.jpg



Pipe, pump, power pole, and meter off LS toe.

| | | | | | |
|----------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.88 | Rating ** | M | Issue No. | 173 |
| LM End | 5.88 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.874829 ° | 37.874829 ° |
| | | | | -121.333265 ° | -121.333265 ° |
| DWR ID | DWR_RD0524_01_s_2014_173 | | | | |

Action/Comments

Inspector Comments: FS_ID:18705

EP_NO: N/A

Repair Type:

Crossing Status:

UCIP Comments: Need to verify gasline exists and if so improve

signage.

FIELD_STRUCT_DESC: Gasline marker sign on WS shoulder.

FS Date: 8/23/2013

Photo 1 of 1 : UCIP_1711.jpg



Gasline marker on WS shoulder.

| | | | |
|--|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.92 | Rating ** | M | Issue No. | 75 |
| LM End | 5.94 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 37.874240 ° | 37.874002 ° |
| | | | | -121.333187 ° | -121.333027 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_75 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: District has grouted rodent holes, but other rodent holes have appeared. | | | | | |

Photo 1 of 1 : richard_s_20140411_527.jpg



Looking southwest at typical rodent holes on waterward slope.

| | | | | | |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.92 | Rating ** | M | Issue No. | 74 |
| LM End | 5.92 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 37.874240 ° | 37.874165 ° |
| | | | | -121.333185 ° | -121.333155 ° |
| DWR ID | DWR_RD0524_01_s_2012_74 | | | | |
| Action/Comments | | | | | |
| Note and monitor erosion site. | | | | | |

Photo 1 of 2 : richard_s_20140320_176.jpg



Erosion at waterward toe and around irrigation pipe at LM 5.92

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 5.92 | Rating ** | M | Issue No. | 74 (cont) |
| LM End | 5.92 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : richard_s_20140320_177.jpg



Looking southeast at erosion around pipe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.92 | Rating ** | M | Issue No. | 190 |
| LM End | 5.92 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.874197 ° | 37.874197 ° |
| | | | | -121.333208 ° | -121.333208 ° |
| DWR ID | DWR_RD0524_01_s_2014_190 | | | | |
| Action/Comments | | | | | |
| Pipe | | | | | |

Photo 1 of 1 : richard_s_20140411_528.jpg



Looking southeast at old pump shaft on waterward shoulder.

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.92 | Rating ** | M | Issue No. | 174 |
| LM End | 5.92 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.874194 ° | 37.874194 ° |
| | | | | -121.333182 ° | -121.333182 ° |
| DWR ID | DWR_RD0524_01_s_2014_174 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18379 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Heavy erosion around pipe upstream of standpipe on LS slope. Verify pipe is not leaking and repair erosion on LS slope. | | | | | |
| FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee 10.0 feet below the crown. Slant pump on pier at WS toe. 10-inch steel standpipe on LS slope. 42-inch concrete standpipe on LS slope. Filter plant, and power pole on LS toe. 1.5-inch galvanized iron electrical conduit at same location. Originally included in the 1964 O&M manual. | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 1 : UCIP_1689.jpg



Butterfly valves and standpipes on LS slope along with electrical conduit.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
| | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.93 | Rating ** | U | Issue No. | 119 |
| LM End | 5.93 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.873893 ° | 37.873893 ° |
| | | | | -121.332978 ° | -121.332978 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_119 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by vehicle traffic and prevent access where possible. | | | | | |
| Inspector Comments: Landowner is using damaged area as a ramp. | | | | | |

Photo 1 of 2 : richard_s_20140320_213.jpg



Looking southwest at damaged slope and ramp on landside slope.

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 5.93 | Rating ** | U | Issue No. | 119 (cont) |
| LM End | 5.93 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : richard_s_20140320_214.jpg



Looking west at unauthorized ramp and landside slope damage.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.97 | Rating ** | M | Issue No. | 86 |
| LM End | 5.97 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.873678 ° | 37.873678 ° |
| | | | | -121.332550 ° | -121.332550 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_86 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.99 | Rating ** | M | Issue No. | 87 |
| LM End | 6.00 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.873545 ° | 37.873445 ° |
| | | | | -121.332308 ° | -121.332127 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_87 | | | | |
| Action/Comments | | | | | |
| Fence | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.99 | Rating ** | U | Issue No. | 88 |
| LM End | 6.00 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.873543 ° | 37.873445 ° |
| | | | | -121.332308 ° | -121.332127 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_88 | | | | |
| Action/Comments | | | | | |
| Landscaping Inspector Comments: Cactus | | | | | |

Photo 1 of 1 : richard_s_20140320_184.jpg



Looking southeast at fence and cactus on landside slope and toe.

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.01 | Rating ** | M | Issue No. | 120 |
| LM End | 6.01 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.873347 ° | 37.873347 ° |
| | | | | -121.332028 ° | -121.332028 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_120 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|-----------------|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.01 | Rating ** | C | Issue No. | 89 |
| LM End | 6.05 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.873377 ° | 37.873102 ° |
| | | | | -121.331977 ° | -121.331382 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_89 | | | | |
| Action/Comments | | | | | |
| Building | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.02 | Rating ** | M | Issue No. | 81 |
| LM End | 6.02 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.873300 ° | 37.873300 ° |
| | | | | -121.331928 ° | -121.331928 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_81 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.05 | Rating ** | M | Issue No. | 933 |
| LM End | 6.05 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Slope Stability | | | 37.873047 ° | 37.873047 ° |
| | | | | -121.331408 ° | -121.331408 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_933 | | | | |
| Action/Comments | | | | | |
| Repair the levee slope damaged by foot traffic and prevent access where possible. | | | | | |
| Inspector Comments: Landowner cut steps into landside slope. | | | | | |

Photo 1 of 1 : richard_s_20140320_251.jpg



Looking north at steps cut into landward slope.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.08 | Rating ** | M | Issue No. | 191 |
| LM End | 6.08 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.872844 ° | 37.872844 ° |
| | | | | -121.331070 ° | -121.331070 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_191 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |
| Inspector Comments: Cactus at landward toe. | | | | | |

No Photos

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.21 | Rating ** | M | Issue No. | 175 |
| LM End | 6.21 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.871138 ° | 37.871138 ° |
| | | | | -121.330145 ° | -121.330145 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_175 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:18392 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Pipe and pump abandoned and should be done so properly. | | | | | |
| FIELD_STRUCT_DESC: *ABANDONED*10-inch pipe through levee 12.0 feet below crown, pump on the waterward slope. Originally included in the 1964 O&M manual. | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 1 : UCIP_1694.jpg



Pump and open pipe visible on WS slope.

| | | |
|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.21 | Rating ** | M | Issue No. | 268 |
| LM End | 6.21 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 37.871137 ° | 37.871137 ° |
| | | | | -121.330138 ° | -121.330138 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_268 | | | | |
| Action/Comments | | | | | |
| Pipe Inspector Comments: Open abandoned 10" pipe on waterside slope below flood elevation. Pipe should be removed or properly abandoned. | | | | | |

Photo 1 of 1 : richard_s_20140320_245.jpg



Looking southeast at abandoned pipe on waterside slope.

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.21 | Rating ** | M | Issue No. | 176 |
| LM End | 6.21 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 37.871118 ° | 37.871118 ° |
| | | | | -121.330137 ° | -121.330137 ° |
| DWR ID | DWR_RD0524_01_s _ 2014_176 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:22073 | | | | | |
| EP_NO: N/A | | | | | |
| Repair Type: | | | | | |
| Crossing Status: | | | | | |
| UCIP Comments: Abandoned and should be done so properly. | | | | | |
| FIELD_STRUCT_DESC: *ABANDONED* 1.75-inch galvanized iron | | | | | |
| electrical conduit through the levee 1-foot below the crown. Power pole | | | | | |
| on LS toe. | | | | | |
| FS Date: 8/23/2013 | | | | | |

Photo 1 of 1 : UCIP_2819.jpg



Pipe visible on WS slope.

| | | | |
|--|--|---|---|
| * Location LS : Land Side WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0524 Middle Roberts Island

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|-------------------------------|------|------------|--------------------------|--------------------|
| Unit No. 01 San Joaquin River | Left | 6.26 | 04/08/2014 04/08/2014 | Richard Willoughby |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.23 | Rating ** | M | Issue No. | 98 |
| LM End | 6.23 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Trim / Thin Trees | | | 37.870842 ° | 37.870842 ° |
| | | | | -121.330000 ° | -121.330000 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_98 | | | | |
| Action/Comments | | | | | |
| Trim trees to at least five feet above ground level. | | | | | |

No Photos

| | | | | | |
|---|---------------------------|--------------|-----|------------------------|---------------|
| LM Start | 6.23 | Rating ** | A/W | Issue No. | 97 |
| LM End | 6.23 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 37.870840 ° | 37.870840 ° |
| | | | | -121.329993 ° | -121.329993 ° |
| DWR ID | DWR_RD0524_01_s _ 2012_97 | | | | |
| Action/Comments | | | | | |
| Remove the wild growth other than native grasses from the levee slopes. | | | | | |

No Photos

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement